AREAS AND MEASUREMENTS

To find the circumference of a circle, multiply the diameter by 3.1416.

To find the diameter, multiply circumference by 0.3183 or divide circumference by 3.1416.

To find the radius, multiply circumference by 0.15915.

To find the side of an inscribed square, multiply the diameter by 0.07071 or multiply the circumference by 0.2551.

To find the side of an equal square, multiply the diameter by 0.8863 or multiply the circumference by 0.2821.

Square: A side multiplied by 1.1142 equals the diameter of its circumscribing circle.

A side multiplied by 4.443 equals the circumference of its circumscribing circle.

A side multiplied by 1.126 equals the diameter of an equal circle.

A side multiplied by 3.547 equals circumference of an equal circle.

To find the area of a circle, multiply the circumference by one-quarter of the diameter or multiply the square of the diameter by 0.7854 or multiply the square of the circumference by 0.07958 or multiply the square of one-half of the diameter by 3.1416.

To find the surface of a sphere or globe, multiply the diameter by the circumference or multiply the square of the diameter by 3.1416 or multiply four times the square of the radius by 3.1416.

To find tank capacities, diameter square x .0034 = gallons per inch of height - Base 42 gallons per barrel.

To find area of a triangle – multiply base by ½ perpendicular height.

To find area of an ellipse – product of both diameters x .7854.

To find area of a parallelogram – base x altitude.

To find cu. inches in a ball – multiply cube of diameter by .5236.

To find cubic contents of a cone – multiply area of base by one-third the altitude.

Area of rectangle equals length multiplied by width.

Surface of frustum of cone or pyramid equals sum of circumference of both ends x ½ slant height plus area both ends.

Contents of frustum of cone or pyramid: multiply area of two ends and get square root – add the two areas and time 1/3 altitude.

CONVERSION TABLES

To convert bushels to ton, multiply number of bushels by 60 and divide the product by 2000 (average maximum weight of commodities 60 pounds per bushel.)

To convert gallons to bushes, divide gallons by 9.35. Answer in bushels.

To convert cubic measure into bushels, multiply by 0.8035.

To find capacity of cylindrical tanks standing on end: To find the capacity in cubic feet of a round tank or cistern, multiply the square of the average diameter by the depth and multiply the product by .785.

APPENDIX

Architectural Terms

Apartment hotel

a building designed for non-transient residential use, divided into dwelling units similar to an apartment house, but having such accommodations as room furnishings, lounges, public dining room, maid service, etc.

Apartment house

a multi-family residence containing three or more non-transient residential living units and generally providing them with a number of common facilities and services.

Attic

An unfinished or semi-finished portion of a building lying between the highest finished story and the roof and wholly within the roof framing.

Basement

a building story which is wholly or partly below the grade level.

Bay

(1) a horizontal area division of a building usually defined as the space between columns or division walls. (2) an internal recess formed by causing a wall to project beyond its general line.

Bay window

a window, or group of continuous windows, projecting from the main wall of a building.

Beam

a long structural load-bearing member which is placed horizontally or nearly so and which is supported at both ends or, infrequently, at intervals along its length.

Beam, spandrel

a wall beam supporting the wall, above, as well as the floor.

Building

any structure partially or wholly above ground which is designed to afford shelter to persons, animals, or goods. See also construction.

Building, fireproof

a building in which all parts carrying loads or resisting stresses and all exterior and interior walls, floors, and staircases are made of incombustible materials, and in which all metallic structural members are encased in materials which remain rigid at the highest probable temperature in case its contents are burned, or which provide ample insulation from such a temperature.

Building, loft

a building having three or more stories with few or no interior bearing walls and designed for storage, wholesaling, or light industrial purposes.

Building, single-purpose

a building designed for a specific purpose, which cannot be used for another purpose without substantial alterations; e.g., a theater or church.

Bungalow

a one-story dwelling unit which is somewhat more pretentious than a cottage.

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Column

a structurally isolated vertical member which is at least 8 to 10 times as long as its least lateral dimension and which is designed to carry loads. Compare *pier*.

Conduit

a tube, pipe, or small artificial tunnel used to enclose wires or pipes or to convey water or other fluids.

Construction, brick

a type of construction in which the exterior walls are bearing walls (q.v.) made of solid brick or brick and tile masonry.

Construction, brick veneer

a type of construction in which the exterior walls are one-layer brick curtain

walls backed by a wood frame.

Construction, fireproof

see fireproof building.

Construction, mill

a type of construction in which the exterior walls are substantial masonry bearing walls, in which the structural members are of heavy timber, and which is further characterized by an open design and by other safeguards against fire hazards. Sometimes called "slow-burning construction."

Construction, reinforced Concrete

a type of construction in which the principal structural members, such as the floors, columns, beams, etc., are made of concrete poured around isolated steel bars or steel meshwork in such manner that the two materials act together in resisting forces.

Construction, steel frame

a type of construction in which there is a framework of steel structural members for the support of all loads and the resistance of all stresses.

Construction, wood frame

a type of construction in which there is a framework of wooden structural members for the support of all loads and the resistance of all stresses. Loosely called "frame construction."

Coping

a special capping at the top of a wall, serving principally as a watershed.

Cornice

a projecting element at the top of a wall, serving principally as a decoration or as part of the coping (q.v.).

Cottage

a one story to two story dwelling unit of small size and humble character.

Course

a uniform horizontal layer of brick, stone, terra cotta, shingles, or some other structural material extending continuously around a building or along a wall.

Court

an open space bordered on two or more sides by the walls of a single building, or of two or more buildings, and by a lot line or a yard on any side not so bordered.

Dormer

(1) a relatively small structure projecting from a sloping roof. (2) a window set upright in the face of such a structure.

Dwelling

any building or portion thereof designed or occupied in whole or in part as a place of residence.

Dwelling, attached

a multi-family dwelling in which the dwelling units are separated vertically by means of common or party walls. See *terrace*.

Dwelling, double

a two-family dwelling in which the dwelling units are separated vertically, by means of a common or party wall. Synonymous with "semi-detached dwelling."

Dwelling, duplex

a two-family dwelling in which the two dwelling units are separated horizontally with a private street entrance for each; i.e., a two-family flat.

Dwelling, Multi-family

a building designed as a place of residence for more than two families or households; e.g., an apartment house or tenement.

Dwelling, row

any one of a series of similar single family, two family, or multi-family dwellings having one or more contiguous common or party walls. Compare terrace; dwelling, double.

Dwelling unit

any room or group of rooms designed as the living quarters of one family or household, equipped with cooking and toilet facilities, and having an independent entrance from a public hall or from the outside.

Eaves

the portion of a sloping roof which projects beyond the outside walls of a building.

Elevation

a drawing which represents a projection of any one of the vertical sides or vertical cross-sections of a building or of any other object. Compare plan.

Façade

the face of a building.

Firewall

a wall of fire-resisting material erected between two parts of a building to prevent the spread of fire from one part to the other.

Flashing

small metal strips used to prevent leaking of roofs around chimneys, dormers, hips, and valleys.

Flat

(1) any one floor of a building two or more stories high, each floor of which constitutes a single dwelling unit and has a private street entrance. (2) the building containing two or more such floors. Compare dwelling, duplex.

Footing

a spreading base to a wall, column, or other supporting member, which serves to widen the ground area to which structural loads are transmitted.

Foundation

the structural members below grade level, or below the first tier of beams above grade level, which transmit the load of a superstructure to the ground.

Gable

(1) the triangular portion of a wall between the slopes of a double- sloping (i.e., gable) roof. (2) the whole of the wall containing such a triangular portion. (3) a portion of a building extending from the remainder of the building and covered with a gable roof.

Girder a large or principal beam (q.v.) used to support concentrated loads at isolated points along its length. (Girders usually support the beams and structure above).

see apartment hotel.

(1) a structural member which is laid perpendicularly to a parallel series of similar members and against which the latter members abut. (2) a brick or other piece of masonry which is laid in a wall in such manner that its longest dimension extends along the thickness of the wall. Contrast *stretcher*.

(1) a sloping line along which two roof surfaces meet to form an external angle of more than 180 degrees. (2) a hip rafter (q.v.) Compare *ridge*; *valley*.

a building designed for transient or semi-transient residential use, divided into furnished single rooms and suites, and having such accommodations as lounges, public dining rooms and maid service, etc

one of a series of small parallel beams laid on edge and used to support floor and ceiling loads, and usually supported in turn by larger beams and girders.

a beam over a wall opening, such as a door or windows, designed to carry the load of the wall over such opening.

storage, Wholesaling, or light manufacturing. See also *loft building*.

a ventilator containing slats which are placed lengthwise across the ventilator opening, each slat being slanted in such manner as to overlap the next lower slat

a non-partitioned or relatively open upper story of a building, designed for

and to permit ventilation but exclude rain.

a flat roof-like structure which shelters a doorway, which has no floor beneath it,

and which is usually supported wholly from the walls or the building.

a low story formed by placing a floor between what would ordinarily be the floor and ceiling of a high story, *Note:* the mezzanine floor frequently has a smaller area than other floors and, if present at all, is usually between the first and second stories.

all of the wooden portions of a building, whether frame construction or otherwise, which are customarily purchased in finished form from a planing mill, such as doors, windows, trim, balusters, etc.

a finished portion of a building having full story height which extends beyond the foundation wall line if part of the ground story, or beyond the exterior walls of the ground story if part of any higher story.

similar to overhang above ground story, such as O.H. bridge or passage, O.H. walk, O.H. Addition.

Header Hip Hotel Hotel, apartment **Joist** Lintel Loft Louver (or louvre) Marquee Mezzanine

Millwork

Overhang

Overhead structure

Partition

see wall, partition.

Pier

(1) a thick, solid mass of masonry which is fully or partially isolated from a structural standpoint and which is designed to transmit vertical loads to the earth. (2) a structure projecting from land into water for use in loading and unloading vessels. Compare column.

Pilaster

a flat-faced pillar projecting somewhat from, but engaged in, the wall of a building and used for decorative purposes or to help support truss and girder loads or both.

Pile

a heavy timber, metallic, or masonry pillar forced into the earth to form a foundation member.

Pitch

the slope of any structural member, such as a roof or rafter, usually expressed as a simple fraction representing the rise per lateral foot.

Plan

a drawing representing a projection of any one of the floors or horizontal crosssections of a building or of the horizontal plane of any other object or area. Compare elevation.

Purlin

a beam running along the underside of a sloping roof surface and at right angles to the rafters, used to support the common rafters, and usually supported in turn by larger structural members, such as trusses or girders (usually run along length of building).

Rafter

a structural member placed, as a rule, in a sloping position and used as the supporting element for the structural material forming the plane of the roof. See also purlin.

Rafter, hip

a rafter placed in an inclined position to support the edges of two sloping roof surfaces which meet to form an external angle of more than 180 degrees.

Rafter, valley

a rafter placed in an inclined position to support the edges of two sloping roof surfaces which meet to form an external angle of less than 180 degrees.

Ramp

an inclined walk or passage connecting two different floor levels and used in lieu of steps.

Residence

see dwelling.

Ridge

a horizontal line along which the upper edges of two roof surfaces meet to form an external angle of more than 180 degrees. Compare *hip; valley*.

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Rise

(1) in general, any vertical distance. (2) specifically, the rise of a roof being the distance between the top of an exterior wall and the peak of the roof; the rise of a stair being the distance from tread to tread.

Roof

the top portion of a structure. Types of roofs include double pitch, flat, gable, gambrel, hip, lean-to, single pitch.

Roof, curb (or curbed)

a roof with a ridge at the center and a double slope on each if its two sides.

Roof, flat

a roof which is flat or sloped only enough to provide proper drainage.

Roof, gable

a double-sloped roof having a cross section similar in general to the shape of the inverted letter "V".

Roof, gambrel

a ridged roof with two slopes on each side, the lower having a steeper pitch.

Roof, hip (or hipped)

(1) in general, any roof having one or more hips (q.v.) (2) usually, a roof with four sloping sides meeting along four hips or along four hips and a ridge. Compare *roof, pyramid*.

Roof, lean-to

(1) a roof having a single sloping side which is supported at the upper edge by the wall of an attached building or of a larger and higher portion of the same building (preferred). (2) any roof with a single slope. Compare *roof, flat,*

Roof, mansard

a special type of curb roof (q.v.) in which the pitch of the upper part of each of the four equally sloping sides is small or negligible and that of the lower part is very great; a series of dormers projects from the lower part.

Roof, monitor

a type of gable roof commonly found on industrial buildings - having a small raised portion along the ridge, with openings for the admission of light and air.

Roof, pyramid

a hip roof having four sloping triangular sides, usually of equal pitch, meeting together at the peak.

Roof, ridged

a roof having one or more ridges (q.v.).

Roof, saw tooth

a roof with a series of parallel sloping surfaces interspersed between a series of vertical surfaces which rise from the lower edges of such sloping surfaces and which contain windows for the admission of light and air.

Roof, single pitch

any roof with a single slope, other than a lean-to roof.

Sash

the wooden or metal framework in which the glass of a door or window is set.

Sheathing

the covering, usually of rough lumber, placed immediately over studding or rafters.

Sill

(1) the lower horizontal part of a door-case (the threshold) or of

a window. (2) the lowest horizontal structural member of a frame building, upon which the superstructure is supported.

Sleeper

a structural member laid horizontally on the ground or upon a masonry base as a support to a floor or other superstructures.

Specifications

a detailed description of the dimensions, materials, quantities, structural procedures, etc. applicable to a projected or completed piece of construction.

Story

that portion of a building enclosed by a floor, a ceiling, and the exterior walls.

Story, ground

the first story lying wholly above the ground level. Synonymous with "first story."

Story, half (or one-half)

(1) for buildings with a mansard or gambrel roof, a finished portion of a building which lies above the wall plate or cornice and which has a usable floor area substantially less than that of the next lower story. (2) for all other buildings, a finished portion of a building which is above one or more full stories, which is wholly or partly within the roof frame and which has one or more exterior walls substantially lower than the full height of the story.

Story, one

a building having no finished story above the ground story.

Stretcher

a brick or other piece of masonry which is laid lengthwise in a wall. contrast header.

Strut

any structural member, which holds apart two or more other members by counteracting a pressure, which tends to bring them together. Contrast tie.

Stud

one of a series of small slender structural members placed vertically and used as the supporting element of exterior or interior walls. (Plural: studs or studding)

Sub floor

the flooring laid directly on top of the floor joists, but beneath the finished floor.

Tenement

a building, usually of obsolete nature, designed primarily for non-transient residential use and divided into three or more dwelling units having common stairs, halls, and street entrances, and sometimes-common bath and toilet rooms. Compare apartment house, flat; terrace.

Terrace

(1) an unroofed level area covered with grass or masonry or both raised above the surrounding ground level, and having a vertical or sloping front. (2) a multifamily dwelling in which the dwelling units are separated vertically by means of common or party walls. Compare *dwelling*, *row*; *dwelling*, *double*.

Terra cotta

a hard-baked ceramic clay molded into decorative tiles, bricks, etc., and used particularly for facing and trim on buildings.

Tie

any structural member, which binds together two or more members by counteracting a stress which tends to draw them apart. Contrast *strut*.

Trim	(1) the wooden po
	wainscoting, and n

(1) the wooden portions of a plastered room, such as the doors, windows, wainscoting, and molding, or the corresponding portions of a room finished otherwise than with plaster. (2) the contrasting elements on the exterior of a building which serve no structural purpose, but are intended to enhance its appearance, e.g., the cornice. (3) occasionally, the hardware of a house, such as

locks, hinges, doorknobs, etc.

Truss a combination of structural pieces fastened together into a rigid open member

which is supported at both ends and upon which loads are superimposed.

Compare girder.

Valley a sloping line along which two roof surfaces meets to form an external angle of

less than 180 degrees. Compare hip; ridge.

Veneer a thin ornamental or protective facing which does not add appreciably to the

strength of the body to which it is attached.

Wainscot (or wainscoting) (1) a wooden facing on the lower portion of a contrasting interior wall. (2) by

extension, a facing of marble tile, or the like, on the lower portion of interior

walls.

Wall a vertical structure serving to enclose, support, divide; such as one of the vertical

enclosing sides of a building or room.

Wall, bearing a wall designed primarily to withstand vertical pressure in addition to its own

weight.

Wall, common a wall owned by one or two parties and jointly used by both, one or both of

whom is entitled to such use under the provisions of ownership.

Wall, curtain a non-bearing wall which is supported by columns, beams, or other structural

members, and whose primary function is to enclose space.

Wall, fire see firewall

Wall, partition an interior bearing or non-bearing wall which separates portions of a story.

Synonymous with partition.

Wall, party a wall jointly used by two parties under easement agreement and erected at or

upon a line separating two parcels of land held under different ownership.

Wall, retaining a wall designed primarily to withstand lateral pressures of earth or other filling

or backing deposited behind it after construction.

Window, bay see bay window.

Window, dormer see dormer.

Wing

a subordinate part of a building extending from the main part, or any one of two or more substantially co-ordinate parts of a building which extend out from one or more common junctions.

DATA PROCESSING TERMS

BAUD

unit of signaling speed equal to the number of discrete conditions or signal events per second.

Binary

a characteristic or property involving a selection, choice, or condition in which there are two possibilities, such as the number representation with a radix of two.

Bits

the smallest unit of information in the binary number system. An abbreviation of binary digits. Normally, a bit refers to one "on", while a no bit means zero "off".

Block

a group of machine words considered or transported as a unit. In flowcharts, each block represents a logical unit of programming.

Bytes

a sequence of adjacent binary digits operated upon as a unit; a unit of computer

storage capacity equal to eight binary bits.

Calculator

a keyboard machine for the automatic performance of arithmetic operations.

CAMA

Computer-Assisted Mass Appraisal - Utilizing data processing to compare parcels, calculate values, and maintain property characteristics to increase efficiency and accuracy in the appraisal process.

Columns binary

pertaining to the binary representation of data on punched cards in which adjacent positions in a column correspond to adjacent bits of data; each column in a 12-row card may be used to represent 12 consecutive bits of 36-bit word.

Computer

a computational device distinguished by its high speed, programmable operation, and large memory.

Computer program

a series of instructions, in a form acceptable to the computer, prepared so as to achieve a certain result.

CPU

central Processing Unit - The heart of the computing system, which contains the arithmetic, logical and control circuits necessary for

the interpretation, execution of a program and controls the functioning of the

entire system.

CRT

see video display terminal.

Data base

a minimally redundant stored collection of data. A collection of data maintained by a computer.

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Schedule of Values

Data base

Management A combination of hardware and software that controls and processes all requests

for data in data bases.

Data element the smallest unit of data stored on some medium to which a reference or none

may be assigned.

Data entry the process of placing information into machine-readable form.

Data path the input-processing-output flow followed by data (often repeatedly) during

normal computer operations.

Data processing performing operations on machine-readable data, either with or without the use

of a computer.

Data structure the particular form in which data are to be treated by the computer program:

whether as whole numbers, decimal fractions, or alphabetic characters, and

whether as single pieces of information or as related sets or arrays of data.

Data verification checking the accuracy of data that has been placed into a data processing

system.

Direct access an addressing scheme or random access storage medium that permits direct

addressing of data locations.

Disk file a means for storing data on a magnetic disk or platter.

Encode to apply a set of rules specifying the manner in which data may be represented

such that a subsequent decoding is possible.

Feedback the process of returning portions of the output of a machine, process, or system

for use as input in a further operation.

Flowchart a graphical representation of the definition, analysis, or solution of a problem

using symbols to represent operations, data flow, and equipment.

Hard copy output that appears on paper.

Hardware the physical equipment in a data processing system.

Indexed sequential a file in which records are organized sequentially with indexes that permit quick

access to individual records as well as rapid sequential processing.

Kilobytes (kilo = 1000, bytes = characters) byte: A form of saying a character - numerical,

letter, or symbol, in machine-readable

form. Data processing personnel measure the size of records by bytes, instead of

number of characters. Exactly, a kilobyte (KB or K) has 1,024 "characters".

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Library

a collection of standard proven computer routines, usually kept on a library tape or random access file, by which problems or portions of problems may be solved.

Master file

a file of records containing a cumulative history or the results of accumulation; updated in each file processing cycle, and carried forward to the next cycle.

Megabyte

(1 million bytes) This unit is quite large and is usually used to measure the volume of a file, a disc, etc.

Memory

the part of the computer that stores the program, holds intermediate results, and various constant data. Same as *storage*,

Modem

a contraction of "Modulator Demodulator." Its function is to interface with data processing devices and convert data to a form compatible for sending and receiving on transmission facilities.

MRA

Multivariate Regression Analysis - Also called the least squares method, is a mathematical method for producing a model for a dependent variable as a linear function of independent factors. As an example - the predicted sales price (dependent variable) is a function of independent factors such as Square Feet, Style, Neighborhood, etc.

Multiplexor

a computer hardware device used as a screening agent to the main computer. It polls all the messages from all terminals and transmits one by one to the main computer. It also dispatches "messages" to receiving ends ... it can be compared to the secretary of a big boss!

Multiprocessing

systems software that enables several CPU's to be connected together to provide faster, more reliable computing.

Multiprogramming

systems software that enables the computer to run several programs simultaneously.

On-line

peripheral equipment or devices in direct communication with the central processing unit, and from which information reflecting current activity is introduced into the data processing system as soon as it occurs.

Operating system

the systems software that manages all other software in the computer (also known as an executive or monitor).

Operator's instructions

these are sets of operation instructions, which tell the operator what to do to get the jobs done on the computer. The instructions are designed for two types of operators:

- 1. Computer operators run the computer, execute a job, mount a tape, etc.
- 2. Use operators run different applications such as payroll, CAMA. The instructions tell them how to add a new record, delete a word, on a terminal or using cards.

Output information that has been processed by the computer.

Peripheral equipment units that work in conjunction with the computer, but are not part of the

computer itself, such as tape reader, card reader, magnetic tape feed, high-speed

printer, typewriter, etc.

Printer hardware for outputting on paper.

Program the instructions that enable a computer to process data.

Programming Language a system for coding instructions for computer processing.

Punched cards a storage medium similar to index cards.

Random access for device or media, the accessing of data by address rather than by sequence.

Record a collection of related items of data treated as a unit.

Sequence an arrangement of items of data according to a specified set of rules.

Sequential processing the procedure of processing data records in the same order that they occur.

Sequential storage storing of data in sequential order.

Software the programs and routines used to extend the capabilities of computers, such as

compilers, assemblers, routines, and subroutines. Also, all documents associated

with a computer, e.g., manuals, circuit diagrams.

Source that which provides information to be entered into the computer.

Source document a form containing raw data for entry into the computer.

Source file a computer program in high-level language code.

Standard deviation a statistical measure of the variation of a characteristic about its average value.

Standard deviation is the square root of the variance of a characteristic about its average observed value. Variance is the sum of the squared deviations of each observed value from the average, divided by one less than the number of observations. For normally distributed observations, approximately 70% of the observations will fall within one standard deviation of the mean or average

value.

Storage the retention of information in the computer system.

Summary report output that displays only the end product of processing in a concise format.

System software computer software that provides overall housekeeping functions for the

computer.

Systems design the development of a computer system (hardware and software) to suit a

particular application, by using the program development cycle.

Terminal a device in a system or communication network at which point data can either

enter or leave the system.

Transaction file a file containing transient data to be processed in combination with a master file.

Turn-around document a document or form prepared as output at one stage of the data processing cycle,

and sent to a customer or other user with the

intention of having it returned and used as input at a later stage.

Unit record a record in which all data concerning each item in a transaction is punched into

one card.

Variable a quantity that, when identified by a symbolic name, can assume any of a given

set of values.

Verify To determine whether a transcription of data or other operation has been

accomplished accurately. To check the results of key punching.

Video display terminal hardware for output on a television-style picture tube (cathode-ray tube or CRT).

Word a set of characters that occupies one storage location and is treated by the

computer circuits as a unit and transported as such.

REAL ESTATE APPRAISAL TERMS

Abstract a computer-printed report of appraised and/or assessed values for each parcel of

real property in a given taxing district; generally sequenced geographically.

Accrued depreciation see depreciation.

Actual age the number of years elapsed since the original construction, as of the effective

valuation date. Compare with effective age.

Ad valorem tax in reference to property, a tax based upon the value of the property.

Aesthetic value a value, intangible in nature, which is attributable to the pleasing appearance of

a property.

Agricultural property land and improvements devoted to or best adaptable for the production of crops,

fruits, and timber, and the raising of livestock.

Air rights the right to the use of a certain specified space within the boundaries of a parcel

of land and above a specified elevation.

Allev influence the enhancement to the value of a property rising out of the presence of an

abutting alley; most generally applicable to commercial properties.

Amenities in reference to property, the intangible benefits arising out of owner- ship;

amenity value refers to the enhancement of value attributable to such amenities.

Appraisal

an estimate, usually in written form, of the value of a specifically described property as of a specified date; may be used synonymously with *valuation or appraised value*.

Appraisal schedules

any standardized schedules and tables used in conjunction with a revaluation program, such as replacement cost pricing schedules, depreciation tables, land depth tables, etc.

Appraised value

see appraisal.

Appraiser

one who estimates value. More specifically, one who possesses the expertise to execute or direct the execution of an appraisal.

Assessed value

see assessment.

Assessing

the act of valuing a property for the purpose of establishing a tax base.

Assessment

the value of taxable property to which the tax rate is to be applied in order to compute the amount of taxes; may be used synonymously with assessed value, taxable value, and tax base.

Assessment district

an assessor's jurisdiction; it may or may not be an entire tax district.

Assessment period

the period of time during which the assessment of all properties within a given assessment district must be completed; the period between tax lien dates.

Assessment ratio

the ratio of assessed value to a particular standard of value, generally the appraised value. A percentage to be applied to the appraised value in order to derive the assessed value.

Assessment roll

the official listing of all properties within a given taxing jurisdiction by ownership, description, and location showing the corresponding assessed values for each; also referred to as *tax list, tax book, tax duplicate*, and *tax roll*.

Assessor

the administrator charged with the assessment of property for ad valorem taxes; his precise duties differ from state to state depending upon state statutes.

Asthetic value

a value, intangible in nature, which is attributable to the pleasing appearance of a property.

Average deviation

in a distribution of values, the average amount of deviation of all the values from the mean value, equal to the total amount of deviation from the mean divided by the number of deviations. As applied to an assessment-to-sale ratio distribution, the average amount which all the ratios within the distribution deviate from the mean ratio.

Base price

a value or unit rate established for a certain specified model, and subject to adjustments to account for variations between that particular model and the subject property under appraisement.

Blighted area

a declining area characterized by marked structural deterioration and/or environmental deficiencies.

Board of Equalization

a non-jurisdictional board charged with the responsibility of reviewing assessments across properties and taxing districts and to assure that said properties and districts are assessed at a uniform level, either raising or lowering assessments accordingly; also referred to as *Board of Appeals*, and *Board of Review*.

Building residual technique

a building valuation technique which requires the value of the land to be a known factor; the value of the buildings can then be indicated by capitalizing the residual net income remaining after deducting the portion attributable to the land.

Capitalization

a mathematical procedure for converting the net income which a property is capable of producing into an indication of its current value. See income approach.

CDU rating

a composite rating of the overall condition, desirability, and usefulness of a structure as developed by the Cole-Layer-Trumble Company and used nationally as a simple, direct, and uniform method of estimating accrued depreciation.

Central business district

the center of a city - in which the primary commercial, governmental, and recreational activities are concentrated.

Certified assessment Evaluator

a professional designation (C.A.E.) conferred upon qualifying assessors by the International Association of Assessing Officers (IAAO).

Classified property tax

an ad valorem property tax under which the assessment ratio varies for different property classes.

Component part-in-place Method

the application of the unit-in-place method to unit groupings or construction components. See *unit-in-place method*.

Corner influence

the enhancement to the value of a property due to its corner location; most generally applicable to commercial properties.

Cost approach

one of the three traditional approaches to determination of the value of a property; arrived at by estimating the value of the land, the replacement or reproduction cost new of the improvement, and the amount of accrued depreciation to the improvement. The estimated land value is then added to the estimated depreciated value of the improvements to arrive at the estimated property value. Also referred to as the "cost-to- market approach" to indicate that the value estimates are derived from market data abstraction and analysis.

Cost factor

a factor or multiplier applied to a replacement or reproduction cost to account for variations in location and time, as well as for other elements of construction costs not otherwise considered.

Cubic content

the cubic volume of a building within the outer surface of the exterior walls and roof and the upper surface of the lowest floor.

Deed

a written instrument, which conveys an interest in real property. A *quitclaim deed* conveys the interest described therein without warranty of title. A *trust deed* conveys interest described therein to a trustee. A *warranty deed* conveys the interest described therein with the provisions that the freehold is guaranteed by the grantor, his heirs, or successors.

Depreciation

loss in value from all causes; may be further classified as *physical*, referring to the loss of value caused by physical deterioration; *functional*, referring to the loss of value caused by obsolescence inherent in the property itself; and economic, referring to the loss of value caused by factors extraneous to the property.

accrued depreciation refers to the actual depreciation existing in a particular

property as of a specified date.

normal depreciation refers to that amount of accrued depreciation one would normally expect to find in buildings of certain construction, design, quality, and age.

Depreciation allowance

a loss of value expressed in terms of a percentage of replacement or reproduction cost new.

Depth factor

a factor or multiplier applied to a unit land value to adjust the value in order to account for variations in depth from an adopted standard depth.

Depth table

a table of depth factors.

Design factor

a factor or multiplier applied to a computed replacement cost as an adjustment to account for cost variations attributable to the particular design of the subject property which were not accounted for in the particular pricing schedule used.

Deterioration

impairment of structural condition evidenced by the wear and tear caused by physical use and the action of the elements, also referred to as *physical depreciation*.

Economic depreciation

See depreciation.

Economic life

the life expectancy of a property during which it can be expected to be profitably utilized.

Economic obsolescence

obsolescence caused by factors extraneous to the property. Also referred to as *economic depreciation*.

Economic rent

the rent which a property can be expected to bring in the open market as opposed to *contract rent* or the rent the property is actually realizing at a given

time.

Effective age

an age assigned to a structure based upon its condition as of the effective valuation date; it may be greater or less than the structure's actual age. Compare with actual age.

Effective depth

in reference to property valuation, that depth, expressed in feet, upon which the selection of the depth factor is based.

Effective frontage

in reference to property valuation, that total frontage, expressed in lineal feet, to which the unit land value is applied, it may or may not be the same as the actual frontage.

Effective gross income

the estimated gross income of a property less an appropriate allowance for vacancies and credit losses.

Effective valuation Date

in reference to a revaluation program, the date as of which the value estimate is applicable.

Encroachment

the displacement of an existing use by another use.

Environmental deficiency

a neighborhood condition such as adverse land uses, congestion, poorly designed streets, etc., operating to cause economic obsolescence and, when coupled with excessive structural deterioration, blight.

Equalization Program

a mass appraisal (or reappraisal) of all property within a given taxing jurisdiction with the goal of equalizing values in order to assure that each taxpayer is bearing only his fair share of the tax load; may be used synonymously with a revaluation program.

Equity

in reference to property taxes, a condition in which the tax load is distributed fairly or *equitably*; opposite of *inequity* which refers to a condition characterized by an unfair or unequitable distribution of the tax burden. *Inequity* is a natural product of changing economic conditions, which can only be effectively cured by periodic equalization programs. In reference to value, it is that value of the property remaining after deducting all liens and charges against it.

Excessive frontage

frontage, which because of the particular utility of the lot does not serve to add value to the lot.

Exempt property

see tax exemption.

Fee appraisal

see mass appraisal.

Field crew

the total professional staff assigned to a specific appraisal project, including listers, reviewers, staff appraisers, and clerical and administrative supporting personnel.

Functional depreciation

see depreciation.

Functional Obsolescence

obsolescence caused by factors inherent in the property itself. Also referred to as functional depreciation.

Functional utility

the composite effect of a property's usefulness and desirability upon its marketability.

Grade

the classification of an improvement based upon certain construction specifications, and quality of materials and workmanship.

Grade factor

a factor or multiplier applied to a base grade level for the purpose of interpolating between grades or establishing an intermediate grade.

Grantee

a person to whom property is transferred and property rights are granted by deed, trust instrument, or other similar documents. Compare with grantor.

Grantor

a person who transfers property or grants property rights by deed, trust instrument, or other similar documents. Compare with grantee.

Gross area

the total floor area of a building measured from the exterior of the walls.

Gross income

the scheduled annual income produced by the operation of a business or by the property itself.

Gross income Multiplier

a multiplier representing the relationship between the gross income of a property and its estimated value.

Gross sales

the total amount of invoiced sales before making any deductions for returns, allowances, etc.

Ground lease

a document entitling the lessee certain specified rights relating to the use of the land.

Ground rent

net rent from a ground lease; that portion of the total rent which is attributable to the land only.

Improved land

land developed for use by the erection of buildings and other improvements.

Income approach

one of the three traditional approaches to determination of value; measures the present worth of the future benefits of a property by the capitalization of its net income stream over its remaining economic life. The approach involves making an estimate of the potential net income the property may be expected to yield, and capitalizing that income into an indication of value.

Income property

a property primarily used to produce a monetary income.

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Industrial park

a subdivision designed and developed to accommodate specific types of industry.

Industrial property

land, improvements, and/or machinery used or adaptable for use in the production of goods either for materials, or by changing other materials and products i.e. assembling, processing and manufacturing ...as well as the supporting auxiliary facilities thereof.

Inequity

see equity.

Influence factor

a factor serving to either devalue or enhance the value of a particular parcel of land, or portions thereof, relative to the norm for which the base unit values were established; generally expressed in terms of a percentage adjustment.

Institutional Property

land and improvements used in conjunction with providing public services and generally owned and operated by the government or other nonprofit organizations ... hospitals, schools, prisons, etc. Such property is generally held exempt from paying property taxes.

Interest rate

the rate of return from an investment.

Land classification

the classification of land based upon its capabilities for use; and/or production.

Land contract

a purchase contract wherein the grantee takes possession of the property with the grantor retaining the deed to the property until the terms of the contract are met as specified.

Land residual technique

a land valuation technique which requires the value of the buildings to be known; the value of the land can then be indicated by capitalizing the residual net income remaining after deducting the portion attributable to the building(s).

Landscaping

natural features such as lawns, shrubs and trees added to a plot of ground or modified in such a way as to make it more attractive.

Land use restrictions

legal restrictions regulating the use to which land may be put.

Land value maps

a map used in conjunction with mass appraising; generally drawn at a small scale, and showing comparative unit land values on a block to block basis.

Lease, Lessee, Lessor

a written contract by which one party (lessor) gives to another party (lessee) the possession and use of a specified property, for a specified time, and under specified terms and conditions

Leasehold

a property held under the terms of a lease.

Leasehold Improvements

additions, renovations, and similar improvements made to a leased property by the lessee.

Leasehold Value

the value of a leasehold, the difference between the contract rent and the currently established economic or market rent.

Legal description

a description of a parcel of land which serves to identify the parcel in a manner sanctioned by law.

Lister

a field inspector or data collector whose principle duty is to collect and record property data (not an appraiser).

Market data Approach

one of the three traditional approaches to determination of the value of a property; arrived at by compiling data on recently sold property which are comparable to the subject property and adjusting their selling prices to account for variations in time, location, and property characteristics between the comparables and the subject property.

Market value

the price an informed and intelligent buyer, fully aware of the existence of competing properties, and not compelled to act, would be justified in paying for a particular property.

Mass appraisal

appraisal of property on a mass scale - such as an entire community, generally for ad valorem tax purposes, using standardized appraisal techniques and procedures to accomplish uniform equitable valuation with a minimum of detail, within a limited time period, and at a limited cost ... as opposed to a *fee appraisal* which is generally used to refer to a rather extensive, detailed appraisal of a single property or singularly used properties for a specified purpose.

Member Appraisal Institute

a professional designation (M.A.I.) conferred upon qualifying real estate appraisers by the American Institute of Real Estate Appraisers.

Mineral rights

the right to extract subterranean deposits such as oil, gas, coal, and minerals, as specified in the grant.

Minimum rental

that portion of the rent in a percentage lease which is fixed.

Model method

a method of computing the replacement or the reproduction cost of an improvement by applying the cost of a specified model and adjusting the cost to account for specified variations between the subject improvement and the model.

Modernization

the corrective action taken to update a property so that it may conform with current standards.

Mortgage, Mortgagee Mortgagor

a legal document by which the owner of a property (mortgagor) pledges the property to a creditor (mortgagee) as security for the payment of a debt.

Neighborhood

a geographical area exhibiting a high degree of homogeneity in residential amenities, land use, economic and social trends, and housing characteristics.

Neighborhood trend

three stages in the life cycle of a neighborhood "the *improving stage* characterized by development and growth; the *static stage* characterized by a leveling off of values; and the *declining stage* characterized by infiltration and decay.

Net income

the income remaining from the effective gross income after deducting all operating expenses related to the cost of ownership.

Net lease

a lease wherein the lessee assumes to pay all applicable operating expenses related to the cost of ownership; also referred to as *net net*, or *net net lease*.

Net sales

gross sales less returns and allowances.

Net sales area

the actual floor area used for merchandising, excluding storage rooms, utility and equipment rooms, etc.

Non-conforming use

a use which, because of modified or new zoning ordinances, no longer conforms to current use regulations, but which is nevertheless upheld to be legal so long as certain conditions are adhered to.

Observed depreciation

that loss in value which is discernable through physical observation by comparing the subject property with a comparable property either new or capable of rendering maximum utility.

Obsolescence

a diminishing of a property's desirability and usefulness brought about by either functional inadequacies and over-adequacies inherent in the property itself, or adverse economic factors external to the property. Refer to *functional depreciation and economic depreciation*.

Operating expenses

the fixed expenses, operating costs, and reserves for replacements which are required to produce net income before depreciation, and which are to be deducted from effective gross income in order to arrive at net income.

Average income

rental received in addition to the minimum contract rental, based upon a specified percentage of a tenant's business receipts.

Overall rate

a capitalization rate representing the relationship of the net income (before recapture) of a property to its value as a single rate; it necessarily contains, in their proper proportions, the elements of both the land and the building capitalization rates.

Over assessed

a condition wherein a property is assessed proportionately higher than comparable properties.

Parcel

piece of land held in one ownership,

Percentage lease

a type of lease in which the rental is stipulated to be a percentage of the tenant's gross or net sales, whichever specified.

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Permanent parcel number

an identification number which is assigned to a parcel of land to uniquely identify that parcel from any other parcel within a given taxing jurisdiction.

Personal property

property, which is not permanently affixed to and a part of the real estate, as specified by state statutes.

Physical depreciation

see depreciation.

Preferential assessment

an assessing system which provides preferential treatment in the form of reduced rates to a particular class of property; such as a system providing for farm properties to be assessed in accordance to their value in use as opposed to their value in the open market.

Property class

a division of like properties generally defined by statutes and generally based upon their present use. The basis for establishing assessment ratios in a classified property assessment system. See *classified property tax*.

Property inspection

a physical inspection of a property for the purpose of collecting and/or reviewing property data.

Property record card

a document specially designed to record and process specified property data; may serve as a source document, a processing form, and/or a permanent property record.

Public utility property

properties devoted to the production of commodities or services for public consumption under the control of governmental agencies such as the Public Utility Commission.

Quantity survey Method

a method of computing the replacement or the reproduction cost of an improvement by applying unit costs to the actual or estimated material and labor quantities and adding an allowance for overhead, profit, and all other indirect construction costs.

Real estate

the physical land and appurtenances affixed thereto; often used synonymously with *real property*.

Real property

all the interests, benefits, and rights enjoyed by the ownership of the real estate.

Reassessment

the revaluation of all properties within a given jurisdiction for the purpose of establishing a new tax base.

Rent

the amount paid for the use of a capital good. See economic rent.

Replacement cost

the current cost of reproducing an improvement of equal utility to the subject property; it may or may not be the cost of reproducing a replica property. Compare with *reproduction cost*.

Reproduction cost

the current cost of reproducing a replica property. Compare with *replacement* cost.

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Schedule of Values

Reserve for replacements

a reserve established to cover renewal and replacements of fixed assets.

Residential property

vacant or improved land devoted to or available for use primarily as a place to

live

Revaluation program

see equalization program.

Sales ratio study

a statistical analysis of the distribution of assessment or appraisal-to-sale ratios of a sample of recent sales, made for the purpose of drawing inferences regarding the entire population of parcels from which the sample was abstracted.

Salvage value

the price one would be justified in paying for an item of property to be removed

from the premises and used elsewhere.

Site development costs

all costs incurred in the preparation of a site for use.

Soil productivity

the capacity of a soil to produce crops.

Sound value

the depreciated value of an improvement.

Sound value estimate

an estimate of the depreciated value of an improvement made directly by comparing it to improvements of comparable condition, desirability, and usefulness without first estimating its replacement cost new.

Standard depth

that lot depth selected as the norm against which other lots are to be compared;

generally the most typical depth.

Sublease

see lease; the lessee in a prior lease simply becomes a lessor in a sublease.

Tax bill

an itemized statement showing the amount of taxes owed for certain property described therein and traceable to the party(s) legally liable for payment thereof.

Tax book

see assessment roll.

Tax district

a political subdivision over which a governmental unit has authority to levy a

tax

Tax duplicate

see assessment roll.

Tax exemption

either total or partial freedom from tax; total exemption such as that granted to governmental, educational, charitable, religious, and similar nonprofit organizations, and partial exemption such as that granted on homesteads, etc.

Tax levy

in reference to property taxes, the total revenue, which is to be realized, by the tax.

L

Tax list

see assessment roll.

Tax mapping

the creation of accurate representations of property boundary lines at appropriate scales to provide a graphic inventory of parcels for use in accounting, appraising

and assessing; such maps show dimensions and the relative size and location of each tract with respect to other tracts.

Tax notice

a written notification to a property owner of the assessed value of certain properties described therein; often mandated by law to be given to each property owner following a revaluation.

Tax rate

the rate - generally expressed in dollars per hundred or dollars per thousand (mills) - which is to be applied against the tax base (assessed value) to compute the amount of taxes. The tax rate is derived by dividing the total tax levy, by the total assessed value of the taxing district.

Tax roll

see assessment roll.

Tillable land

land suitable for growing annual crops.

Under assessed

a condition wherein a property is assessed proportionately lower than computable properties.

Uniformity

as applied to assessing, a condition wherein all properties are assessed

at the same ratio to market value, or other standard of value depending upon the

particular assessing practices followed.

Unimproved land

vacant land; a parcel for which there is no improvement value.

Unit cost or price

the price or cost of one item of a quantity of similar items.

Unit-in-place method

a method of computing the replacement or reproduction cost of an improvement by applying established unit-in-place rates, developed to include the cost of materials, equipment, labor, overhead and profit, to the various construction units.

Use density

the number of buildings in a particular use per unit of area, such as a density of so many apartment units per acre.

Use value

the actual value of a commodity to a specific owner, as opposed to its value in exchange or market value.

Vacancy

an un-rented unit of rental property.

Vacant land

unimproved land; a parcel for which there is no improvement value.

Valuation

see appraisal.

View

the scene as viewed from a property.

Water frontage

land abutting on a body of water.

Woodland

land which is fairly densely covered with trees.

Zoning regulations

governmental restrictions relating to the use of land.

STATISTICAL TERMS

Aggregate ratio

as applied to real estate, the ratio of the total assessed value to the total selling

price.

Average deviation

in a distribution of values, the average amount of deviation of all the values from the mean value equal to the total amount of deviation from the mean

divided by the number of deviations.

Cells

the basic units making up a stratified sample; each sale representing a distinct

group within the total universe.

Coefficient

a value prefixed as a multiplier to a variable or an unknown quantity.

Coefficient of dispersion

as applied to an assessment-to-sale ratio distribution, a measure of dispersion in a given distribution equal to the average deviation of the ratios from the mean

ratio divided by the mean ratio.

Frequency distribution

a display of the frequency with which each value in a given distribution occurs, or in a grouped frequency distribution, a display of the frequency with which the

values within various intervals, or value groupings, occur.

Mean

a measure of central tendency equal to the sum of the values divided by the

number. Also referred to as arithmetic average or arithmetic mean.

Median

a measure of central tendency equal to that point in a distribution above which 50% of the values fall and below which 50% of the values fall. The 50th

percentile. The 2nd quartile.

Mode

a measure of central tendency equal to that value occurring most frequently in a given distribution. In a grouped frequency distribution, the mode is equal to the

mid point of the interval with the greatest frequency.

Normal distribution

a distribution in which all the values are distributed symmetrically about the mean value, with 68.26% of the values failing between +/- 1 standard deviation, 95.44% between +/- 2 standard deviations, and 99.74% between +/- 3 standard

deviations.

Percentile rank

the relative position of a value in a distribution of values expressed in percentage terms; for instance, as applied to an assessment-to-sale ratio distribution, a ratio with a percentile rank of 83 would indicate that 83% of the ratios were lower and 17% of the ratios were higher than that particular ratio.

Precision

as applied to real estate, it refers to the closeness of estimated value to actual

selling price on an aggregate basis.

Price related differential

as applied to real estate, an analytical measure of the vertical uniformity of values in a given distribution calculated by dividing the mean ratio by the aggregate ratio; a ratio of more than 1 being generally indicative of the relative

undervaluation of high priced properties as compared to the less valuable properties, whereas a ratio of less than 1 would indicate the converse relationship.

Quartile

positions in a distribution at 25 percentile intervals; the *first quartile* being equal to the 25th percentile, the *second quartile* being equal to the 50th percentile or the median, and the *third quartile* being equal to the 75th percentile.

Regression analysis

a statistical technique for making statements as to the degree of linear association between a criterion (dependent) variable and one or more predicator (independent) variables; a simple linear regression having one independent variable, and multiple linear regression having more than one independent variable.

Range

the difference between the highest and the lowest value in a distribution.

Ratio

a fixed relationship between two similar things expressed in terms of the number of times the first contains the second; the quotient of one quantity divided by another quantity of the same type, generally expressed as a fraction.

Sample

as applied to real estate, a set of parcels taken from a given universe which is used to make inferences about values for the universe.

A probability sample is a sample in which each parcel in the universe is given equal chance of being included. Also referred to as random sample.

A non-probability sample is a sample in which each parcel in the universe being chosen by other criteria is not given an equal chance of being included. Essentially all assessment-to-sale ratio studies are non-probability samples.

Sample size

as applied to real estate, the number of parcels needed from a universe to achieve a desired level of precision, given the total number of parcels in the universe and the standard deviation thereof.

Standard deviation

a measure of dispersion, variability or scatter of values in a given distribution equal to the square root of the arithmetic mean of the squares of the deviations from the mean.

Standard error of the mean

a measure of the statistical variability of the mean equal to the standard deviation of the distribution divided by the square root of the sample size.

Stratified sampling

the selection of sample parcels from distinct groups within the total universe based upon the known sizes and characteristics of these distinct groups.

Universe

as applied to real estate, all the parcels of a given type in the group under study, i.e., all the parcels of a given neighborhood, district, etc. Also referred to as population.