

LAND VALUATION $\qquad$

- Intro
- Units of Comparison
- Front Foot Lot Sizing
- Valuing Land
- Sales Ratio / Mass Appraisal of Land

Vacant vs Improved
Adjustments

- Question/Answer
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## LAND VALUATION

- LAND $\qquad$
Ground, soil \& everything attached to it both by nature and by man
Encompasses everything from the core of the earth
Includes minerals, rocks, oil, gas, water or any other substance found in the
earth.
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## LAND VALUATION

- FIVE ATTRIBUTES OF LAND
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Supply is fixed
Lasting
Unique
Physically immobile
Has use therefore has value
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## LAND VALUATION

- Improvements to land

Improvements that prepare land for development
Streets, sidewalks, streetlights
Landscaping, grading, driveways, utilities

- Improvements on land

Improvements that have been constructed on the parcel
Structures

## LAND VALUATION

- Excess Land

Land remaining after improvements are in place that can be developed later or
Land re
split.

- Surplus Land

Land that cannot be used or sold off due to limitations of size or other physical characteristics.
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LAND VALUATION

- Assemblage

When two parcels are combined into one parcel
The value remains the same

- Plottage

When two parcels are combined into one parcel
Increases the value or demand

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## LAND VALUATION

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- Rectangular Land Survey
- Metes and Bounds $\qquad$
- Lots \& Blocks $\qquad$
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| $\begin{array}{ll} \text { NWW } & 1 / 4 \\ \text { NW } & 1 / 4 \end{array}$ | $\begin{array}{\|cc\|} \hline \text { ME } & 1 / 4 \\ \text { HW } & 1 / 4 \end{array}$ | $\begin{gathered} 80 \\ \text { acres } \end{gathered}$ |  | $\begin{gathered} 80 \\ \text { acres } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{array}{\|cc\|} \hline 5 W & 1 / 4 \\ \text { HW } & 1 / 4 \end{array}$ | $\begin{aligned} & \text { SE } 1 / 4 \\ & \text { NW } 1 / 4 \end{aligned}$ |  |  |  |
| SW 1/4 <br> 160 acres |  | 80 acres |  |  |
|  |  | 20 | 20 | 40 |

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LAND VALUATION

- SW
- SW NW
- W1/2 NE
- N1/2 SE

| $\begin{array}{ll} \text { NW } & 1 / 4 \\ \text { NW } & 1 / 4 \end{array}$ | $\begin{array}{\|cc\|} \hline \text { NE } & 1 / 4 \\ \text { NW } & 1 / 4 \end{array}$ | $\begin{gathered} 80 \\ \text { acres } \end{gathered}$ |  | $\begin{gathered} 80 \\ \text { acres } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{array}{ll}\text { SWW } & 1 / 4 \\ \text { NW } & 1 / 4\end{array}$ | SE $1 / 4$ NW $1 / 4$ |  |  |  |
| SW 1/4 <br> 160 acres |  | 80 acres |  |  |
|  |  | 20 | 20 | 40 |

## Typical Section



## LAND VALUATION

- Metes. Refers to a boundary defined by the measurement of each straight run, specified by a distance between points and an orientation or direction. A direction specified by a distance between points and an orientation or direction. A direction
may be a simple compass bearing or a precise orientation determined by accurate may be a simple compass bearing or a precise orientation determined by accurate
survey methods.
- Bounds. Refers to a more general boundary description, such as along a certain watercourse, a stone wall, an adjoining public road way, or an existing building.
- The system is often used to define larger pieces of property (farms), and political subdivisions (town boundaries) where precise definition is not required or would be far too expensive
- Previously designated boundaries can be incorporated into the description.



## LAND VALUATION

- Original Metes \& Bounds using Rods and Chains were surprisingly accurate.
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- However difficulties have arisen over the years.

Man-made features such as roads, waterways, walls, markers or stakes used to mark corners and determine the line of the boundaries may have moved.
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In the metes and bounds system, corners, distance, direction, monuments and
bounds are always carried back to the original intent regardless of where they
are now.
Court cases are sometimes required to settle the matter when it is suspected
the corner markers may have been moved.

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## LAND VALUATION

- Lot and Block

The most recent of the three main survey systems.
It began to be widely employed in the United States in the 19th century when
cities began to expand into the surrounding farmland. The owners of a large
tract of land would create a plat and subdivide the tract into a series of smaller
lots to be sold to buyers.
This subdivision survey plan would then be recorded.
The officially recorded map then became the legal description of all the lots in the subdivision.
The method became widespread after the post World War II expansion into the suburbs when formerly rural areas became heavily populated and large tracts of rural land were divided into smaller lots.

## LAND VALUATION

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- Lot and Block

A survey is conducted to divide the original tract into smaller lots and a plat map is created.
Usually this subdivision survey employs a metes and bounds system to delineate individual lots within the main tract.
Each lot on the plat map is assigned an identifier, usually a number or letter.
This map becomes the legal description of all the lots in the subdivision.
A type of the Lot and Block system is frequently used for tax identification
purposes. This designation is often called a Tax Identification Number or Parcel Number, is not directly based on the legal description of the property.
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## LAND VALUATION

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- Square Foot

Best used for lots with irregular shaped sites and where frontage is not a dominate factor in value.
Multi-Family, Commercial and small industrial sites
Assumes the consumer will pay the same rate for the entire lot
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$\qquad$ Bass Type Sq.fixRate
SFXRate Square-Feet 79,505.00

| Lot W/0 Adj | $\$ 43,728$ |
| :--- | :--- |
| Lot with Adj | $\$ 43,728$ |
| Lot Total (RND) | $\$ 43,730$ |
| Total Land | $\$ 43,730$ |

## LAND VALUATION

- Site and Excess
- Used mainly in Rural Residential land valuation.

Used to add value for utilities such as septic tanks, wells and electricity
Assumes the consumer will pay more for the first acre than the excess $\qquad$
Basis Type Site Excess $\sim$ 目团 SF: 112,820.40 Acres: 2.590

| Site and Excess | Acres | Quality |  | Value s |
| :---: | :---: | :---: | :---: | :---: |
| Site | 1.000 | Very Good | $\checkmark$ | 50,000.00 |
| Excess 1 | 1.590 | Above Normal | $\checkmark$ | 6,360.00 |
| Excess 2 | 0.000 | None | $\checkmark$ | 0.00 |
|  | Vatues |  |  |  |
|  |  |  | Lot w/o Adj | 556,360 |
|  |  |  | Lot with Adj | \$56,350 |
|  |  |  | Lot Total (PND) | \$56,360 |
|  |  |  | Total Land | \$56,360 |


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## LAND VALUATION

- Acre X Rate

Set standards for your office to consistently value based on Acre X Rate vs SF X
Rate.
Greater than 1 Acre use Acre X Rate?
Less than 1 Acre use SF X Rate?
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If more than one land unit of comparison is used in an area, the following chart should be used to maintain equity.

| 10,000/AC | $=$ | \$0.25/S.F. | $=$ | S50/F.F |
| :---: | :---: | :---: | :---: | :---: |
| 12,500/AC | $=$ | \$0.30/S.F. | $=$ | \$60/F.F. |
| 15,000/AC | $=$ | \$0.40/S.F. | = | S75/F.F |
| 20,000/AC | $=$ | \$0.50/S.F. | = | \$100/F. F |
| 25,000/AC | $=$ | \$0.60/S.F. | = | \$125/F.F. |
| 30,000/AC | $=$ | \$0.75/S.F. | = | \$150/F. F. |
| 40,000/AC | $=$ | \$1.00/S.F. | $=$ | \$200/F. F. |
| 50,000/AC | $=$ | \$1.25/S.F. | = | \$250/FF |
| 60,000/AC | $=$ | \$1.50/S.F. | $=$ | \$300/F.F. |
| 75,000/AC | $=$ | \$1.75/S.F. | = | \$350/F.F. |
| 80,000/AC | $=$ | \$2.00/S.F. | = | \$400/F F |
| 100,000/AC | $=$ | \$2 50/S. F. | = | \$500/F. F. |
| 125,000/AC | $=$ | \$3.00/S.F. | = | \$600/F.F. |
| 150,000/AC | $=$ | \$3.50/S.F. | $=$ | \$700/F.F. |
| 175,000/AC | $=$ | S4.00/S.F. | $=$ | \$800/FF. |
| 200,000/AC | $=$ | \$5.00/S.F. | $=$ | \$900/F.F. |
| 225,000/AC | $=$ | \$5.50/S.F. | $=$ | \$1,000/F.F |
| 250,000/AC | $=$ | \$6.00/S.F. | $=$ | \$1,100/F.F |
| 275,000/AC | $=$ | \$6.50/S.F. | $=$ | \$1,200/F.F |

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| Sub lot2 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| NO VALUE |  |  |  |  |  |  |  |  |
| Sub lot3 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |


|  |         <br> Sub lot3 0.00 0.00 0.00 0.00 0.00 0.00 0.00 <br> Sub lot4 0.00 0.00 0.00 0.00 0.00 0.00 0.00 $\mathbf{0 . 0 0}$ NO VALUE VALUE |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

    Values
    Because the lot is greater than $150^{\prime}$ deep a Depth Factor of 1.06 is used
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## FRONT FOOT LOT SIZING

- Nearly all lots can be made to fall into two configurations $\qquad$
- Rectangles

Triangles

- You may exchange rear land for rear land and front land for front land


## LAND VALUATION

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- Nearly all lots can be made to fall into two configurati

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## LAND VALUATION

- Front Foot Pricing uses two theories $\qquad$
1/3-2/3 Rule
If the front measurement of a lot is larger then the rear measurement you use the $2 / 3$ rule.
If the rear measurement of a lot is larger then the front measurement of a lot then you use the $1 / 3$ rule.
- This is also known as the 35-65 rule.
- Simply a Mathematical formula to arrive at "frontage figured"

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| Front Foot | Frontage | Rear | Swat 1 | Side 2 | Rear lot | Ad) FF | 0 Factor | Eff | Land Table |  | Rate 5 |
| main lot | 150.00 | 50.00 | 150.00 | 150.00 | 0.00 | 116.67 | 1.00 | 116.67 | k - 40 | $\stackrel{\square}{5}$ | 40.00 |
| Sublor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | movaue |  | 0.00 |
| Sublos | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | no vaue | - | 0.00 |
| Sub lota | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | no value | $\stackrel{\square}{7}$ | 0.00 |

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## LOT SIZING

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- The Front is the distance along a street (by address), river, lake or golf course
- If an address isn't given on an improved or vacant lot and it is the corner, front the lot on the shortest side, unless there are notes that state to the contrary. (Could vary by jurisdiction)
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Slide 58

M2 Mike, 10/30/2017

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## LOT SIZING


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| Suss Type | Front foot | $\checkmark$ 险 5: 16,912.50 |  |  |  | AJes: 0.388 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Front foot | Frontage | Rear | Side 1 | Side 2 | Rear lot | D Foctor | EFF | Land Table |  | Rote 5 |
| Main Lot | 165.00 | 165.00 | 150.00 | 55.00 | 0.00 | 0.92 | 151.80 | R-500 | $\checkmark$ | 500.00 |
| Sub Lot2 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | no value | $\checkmark$ | 0.00 |
| Sub Lot3 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | no value | - | 0.00 |
| Sub Lots | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | no value | $\checkmark$ | 0.00 |

CAMA IS AVERAGING THE SIDES TO FIND THE DEPTH FACOTR FOR YOU Values
USING THE 130' DEPTH CHART, $150+55=205 ; 205 / 2=102.5$ Lot $\mathrm{w} / \mathrm{o} \mathrm{Adj}$ ot with Adj $165 \times .92=151.80 \mathrm{EFF}$
$151.80 \times \$ 500 / \mathrm{FF}=\$ 75,900$
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## LOT SIZING TRIAGULAR SHAPED LOTS

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- We must use the $1 / 32 / 3$ rule to calculate the Frontage or the Rear
- The " $2 / 3$ rule" applies when the front is greater than the rear. Whereas the " $1 / 3$ $\qquad$
The $1 / 32 / 3$ rule would apply to the difference between the front measurements and the rear measurement and the result would be added to the smaller measurement.
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## LOT SIZING

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- You may have rear land if the lots are not contiguous.


## Oak Street



Elm Street
The parcel for "Jones" is on a separate parcel.
Lot size will be: $F=100 \mathrm{D}=100$ $R L=100$. Front off Oak Street.
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## LOT SIZING

> Lot size for "Jones": $\mathrm{F}=50 \mathrm{D}=25 \mathrm{RL}=75$.
> Mr. Jones two lots can be no more valuable than Mr. Smith's lot of $50 \times 100$.
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## LAND VALUATION

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- TOTAL VALUE/ SALE PRICE SHOULD BE VERY CLOSE TO 100\% $\qquad$
- LANDVALUE + BUILDING VALUE = TOTAL VALUE $\qquad$
- SALEPRICE-LAND VALUE = BUILDING VALUE
- RCN - DEPRECIATION = BUILDING VALUE

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| LAND VALUATION |  |  |  |
| :---: | :---: | :---: | :---: |
| Land Type Sale Price | $\begin{aligned} & \text { LV 20\% } \\ & \text { Resi Adj Front Foot } \end{aligned}$ | EFF |  |
| Front Foot \$123,000 | 90 | 80.01 |  |
| Front Foot \$125,000 | 100 | 89 |  |
| Front Foot $\mathbf{\$ 1 3 0 , 0 0 0}$ | 95 | 85 |  |

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| $\begin{aligned} & \text { Land } \\ & \text { Type } \end{aligned}$ | Sale Price | LV 20\% | Front Foot | EFF | $\begin{aligned} & \text { Depth } \\ & \text { Factor } \end{aligned}$ | Land S/FF |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\underset{\substack{\text { Front } \\ \text { Foot }}}{ }$ | \$123,000 | \$24,600 | 90 | 80.01 | 0.89 | \$307 |
| ${ }_{\substack{\text { front } \\ \text { Foot } \\ \text { fror }}}$ | \$125,000 | \$25,000 | 100 | 89 | 0.89 | 5280 |
| ${ }_{\substack{\text { chent } \\ \text { Front } \\ \text { Foot }}}$ | \$130,000 | \$32,500 | 95 | 85 | 0.89 | \$382 |

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| Sale Price |  | \$200,000 |
| :---: | :---: | :---: |
| RCN | \$225,000 |  |
| Depreciation | 30\% |  |
| Functional Obso | 0\% |  |
| Economic Obso | 0\% |  |
| Building Value |  | \$157,500 |
| Indicated Land <br> Value |  | \$42,500 |

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## LAND VALUATION

- Capitalization of Ground Rent

Converts rent or leases of land into value by capitalizing the net income $\qquad$
Used when income from the property is completely independent of any improvements $\qquad$
Most applicable to Commercial or Agricultural Land

## LAND VALUATION

- Land Residual Capitalization

Land residual capitalization is used when the income stream is dependent upon land \& improvements. $\qquad$
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## LAND VALUATION

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- Land Build-up Method

Most applicable to newly subdivided land or land ready to be subdivided
Calculates an indicated value for land based on projected sales after deducting all development costs
This method is seldom used under normal conditions and should only be considered only as a last resort

## LAND VALUATION

A developer purchases five acres of raw land and then plats the land into 15 lots.

| Land Purchase |  |
| :--- | ---: | ---: |
| Street | $\mathbf{\$ 8 0 , 0 0 0}$ |
| Curbs | $\mathbf{\$ 1 0 9 , 5 0 0}$ |
| Storm Sewer \& Inlets | $\mathbf{\$ 2 4 , 9 0 0}$ |
| Sanitary Sewer | $\mathbf{\$ 4 4 , 5 0 0}$ |
| Sidewalk | $\mathbf{\$ 1 2 , 0 0 0}$ |
| Engineering Fees | $\mathbf{\$ 9 , 0 0 0}$ |
| total | $\mathbf{\$ 2 7 9 , 9 0 0}$ |
| Developers Profit 20\% | $\mathbf{\$ 5 5 , 9 8 0}$ |
| Total Vaue | $\mathbf{\$ 3 3 5 , 8 8 0}$ |
| Avg Lot Price (Total/\#lots) |  |

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A developer purchases five acres of raw land and then plats the land into 15 lots.

| Land Purchase |  |  |
| :--- | ---: | ---: |
| Street | $\mathbf{\$ 8 0 , 0 0 0}$ |  |
| Curbs | $\mathbf{\$ 1 0 9 , 5 0 0}$ |  |
| Storm Sewer \& Inlets | $\mathbf{\$ 2 4 , 9 0 0}$ |  |
| Sanitary Sewer | $\mathbf{\$ 4 4 , 5 0 0}$ |  |
| Sidewalk | $\mathbf{\$ 1 2 , 0 0 0}$ |  |
| Engineering Fees | $\mathbf{\$ 9 , 0 0 0}$ |  |
| total | $\mathbf{\$ 2 7 9 , 9 0 0}$ |  |
| Developers Profit 20\% | $\mathbf{\$ 5 5 , 9 8 0}$ |  |
| Total Value | $\mathbf{\$ 3 3 5 , 8 8 0}$ |  |
| Avg Lot Price (Total/\#lots) | $\mathbf{\$ 2 2 , 3 8 7 / L o t}$ |  |

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## LAND VALUATION

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- Unimproved vs Improved Sites

Land that is undeveloped is unimproved
Land that has been developed to the extent it is ready to be built upon is considered a site
Off-Site improvements which make undeveloped land a site include streets and utilities
utilities
Other site improvements include grading, topsoil, landscaping, trees, shrubs, etc..

## LAND VALUATION

- For assessment/mass appraisal purposes land should be valued as if improved
- Therefore unimproved adjustment factors should be determined and applied to unimproved land.
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| LAND VALUATION |  |
| :---: | :---: |
| TYPICAL Lot Is 75x150 |  |
| GRADING \& TOPSOIL (S0.21/SF) | \$2,363 |
| TREES (2@ S100.00/EACH) | \$200 |
| SHRUBS (3® S25.00/EACH) | \$75 |
| SEEDING (S.02/SF) | \$225 |
| TOTAL IMPROVED SITE COST | \$2,863 |
| ROunded | \$3,000 |

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SHRUBS (3@ \$25.00/EACH) $\qquad$
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## LAND VALUATION

- Land values for the improved sites in this subdivision should be the sale price of unimproved sites plus the site improvement costs. If the vacant sites are selling for $\$ 15,000$ per lot the land value for the subdivision should be $\$ 18,000$. $\$ 15,000+$ $\$ 3,000$ )
- The adjustment for unimproved lots in this subdivision should be $15 \%$ $\$ 3,000 / \$ 18,000=16.66 \%$
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NT FOOT PRICE VACANCY RATE TO BE USED

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- Second we must then use the land to building ratio to verify vacant land rates
- We must verify land types being used
- Verify land rates being used
- Make necessary changes to land rates
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| 0625204006 | 0 | Urban Residential | 0 | Aluson | 1 | 150.00 |
| 0625205005 | 0 | Uiban Residential | 0 | Allison | 1 | 150.00 |
| 0625205006 | 0 | Urban Residential | 0 | Aluson | 1 | 150.00 |
| 0625205007 | 0 | Urban Residential | 0 | Allson | 1 | 150.00 |
| 0625205008 | 0 | Uriman Residential | 0 | Allison | 1 | 150.00 |
| 0625206001 | 0 | Urban Residential | 0 | Allison | 1 | 15000 |
| 0625206002 | 0 | Urban Residential | 0 | Allisont | 1 | 150.00 |
| 0625206003 | 0 | Urban Residential | 0 | Allison | 1 | 150.00 |
| 0625206004 | 0 | Urban Residentiat | 0 | Allison | 1 | 150.00 |
| 0625206005 | 0 | Uriman Residential | 0 | Allison | 1 | 150.00 |
| 0625206006 | 0 | Urban Residential | 0 | Allison | 1 | 150.00 |
| 0625206007 | 0 | Uiban Residential | 0 | Allison | 1 | 150.00 |
| 0625206008 | 0 | Urban Residential | 0 | Aluson | 1 | 150.00 |
| 0625206009 | 0 | Urban Residential | 0 | Aluson | 1 | 15000 |
| 0625207001 | 0 | Urban Residential | 0 | Alusont | 1 | 150.00 |
| 0625207002 | 0 | Urban Residential | 0 | Allison | 1 | 150.00 |
| 0625207003 | 0 | Unban Residentiat | 0 | Allison | 1 | 150.00 |
| 0625207004 | 0 | Urban Residential | 0 | Allison | , | 150.00 |
| 0625207005 | 0 | Urban Residential | 0 | Allison | 1 | 150.00 |
| 0625208001 | 0 | Urban Residential | 0 | Allson | 1 | 150.00 |
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M1 Mike, 9/8/2017

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## LAND UPDATE


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