

Geographic Information Systems

Clint Hutchings
December 2, 2020

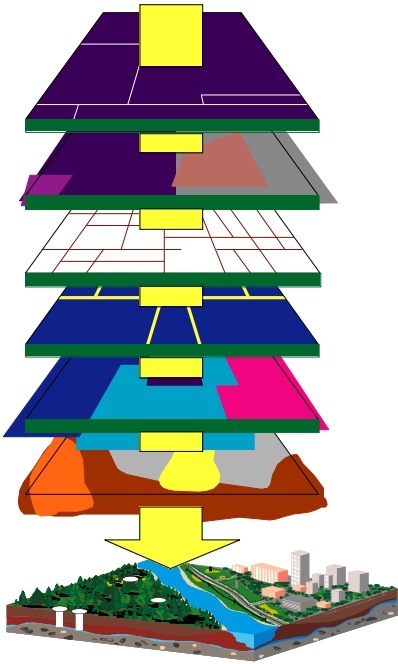
Geographic Information Systems

What is GIS?

A geographic information system (GIS) integrates hardware, software, and data for capturing, managing, analyzing, and displaying all forms of geographically referenced information.

Integrating Parts

► GIS as a whole



**Social
Factors
Biodiversity
Engineering
Land Use
Environmental
Considerations**

GIS group consists of 3 Full Time Employees
and 2 Interns

All of us have Bachelors or Masters Degrees
in Geographic Information Systems


GIS

- ▶ Recent Projects / Current Projects
- ▶ Upcoming Projects

Commercial Impervious Property Calculations



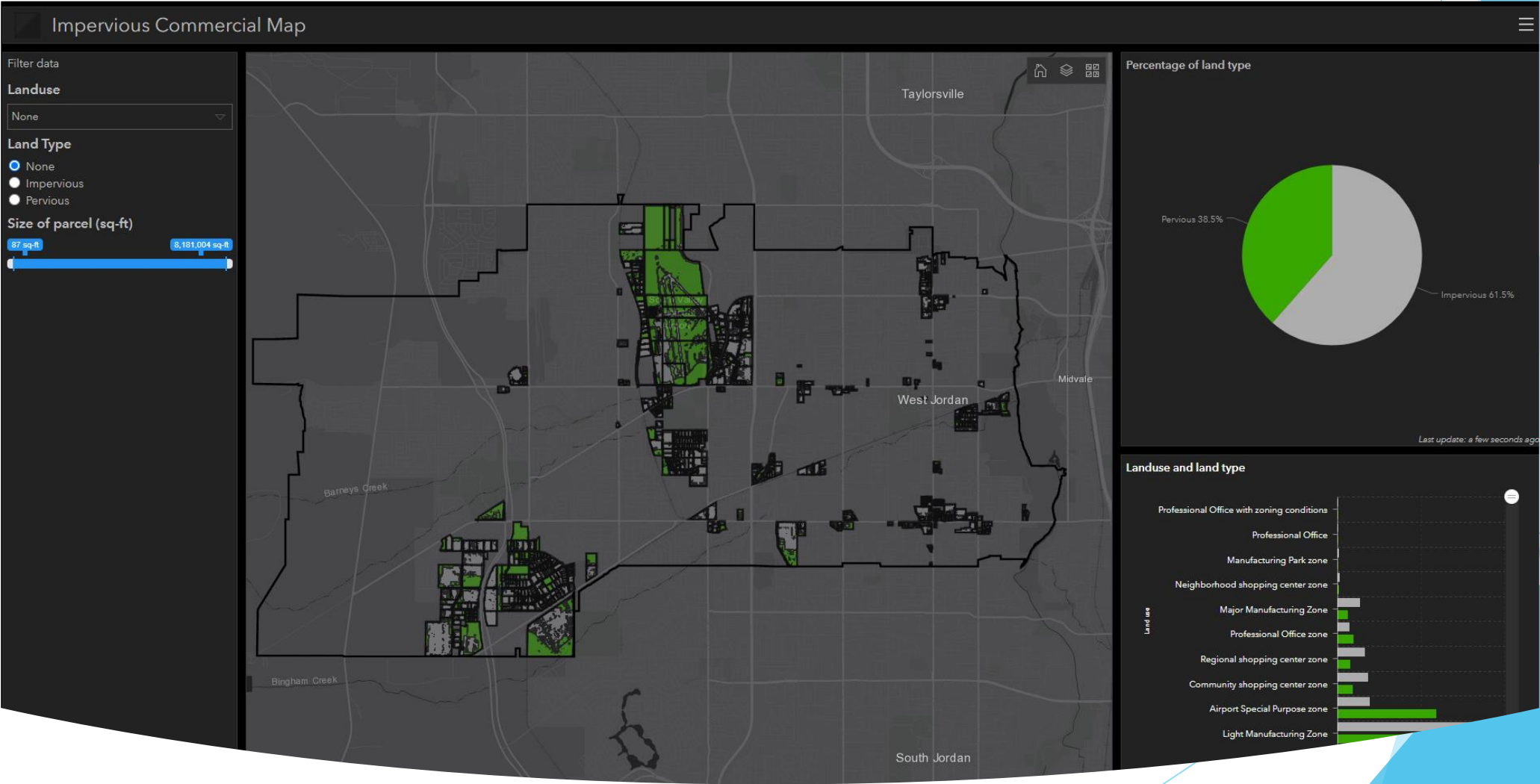
CASPIAN INVESTMENT, LLC
9152 PROSPERITY RD
Parcel ID: 26023060010000

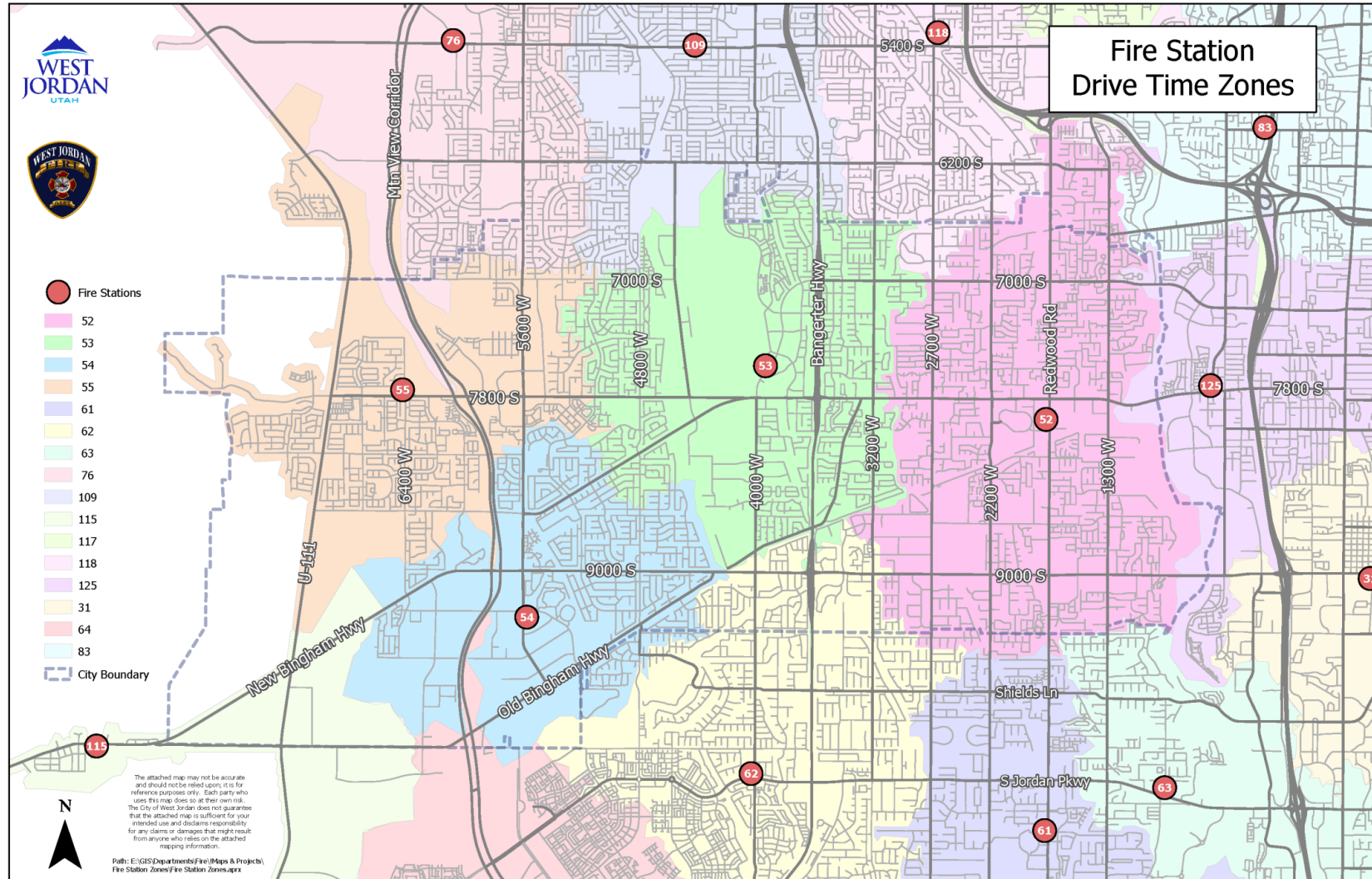
 Impervious Surface

0 75 150 300 Feet



Impervious Surface Area Dashboard





Citizen Service Request Dashboard








Storeroom

MAIN WAREHOUSE

[STOREROOM MATERIAL](#)
[WORK ORDER MATERIAL](#)
[MATERIAL SEARCH](#)

MATERIAL SEARCH

<input type="checkbox"/>	Image	Material Uid ↑	Description	Stock on Hand	Unit Cost	Stock Availability
<input type="checkbox"/>		W1IN4GALLMETER	1" 4G Allegro Meter	54	\$344.58	View Stock ▼
<input checked="" type="checkbox"/>		W1INAIRVACPRV	1" Air Vacs PRV	3	\$458.75	View Stock ▼
<input type="checkbox"/>		W1INAVALVESBP	1" Angle Valve Small Brass Part	7	\$25.00	View Stock ▼
<input type="checkbox"/>		W1INBRASS90SBP	1" Brass 90 Small Brass Part	0	\$0.00	View Stock ▼
<input type="checkbox"/>		W1INBRASSCAPSBP	1" Brass Cap Small Brass Part	0	\$0.00	View Stock ▼



WATER MATERIAL USAGE REPORT: 10/1/20 - 10/31/20



Transaction Date	Employee/Group	WO ID	Quantity	Cost
1 1/2" Brass Gate Valve Small Brass Part (\$20.23/UNIT)				
10/7/20	D. Mills	17373	1.00	20.23
TOTALS:			1.00	20.23
1" IPS Full Instatite Small Brass Part (\$38.77/UNIT)				
10/13/20	J. Bench	17097	1.00	38.77
TOTALS:			1.00	38.77
10" C900 Mechanical Joint Restraint Kit (\$200.00/UNIT)				
10/28/20	T. Kennedy	17532	4.00	800.00
TOTALS:			4.00	800.00
10" DI MJ Solid Sleeve Ductile Fitting (\$270.30/UNIT)				
10/28/20	T. Kennedy	17532	2.00	540.60
TOTALS:			2.00	540.60
10" x 20' PVC (C900) Pipe (\$241.80/UNIT)				
10/28/20	T. Kennedy	17532	4.00	967.20
TOTALS:			4.00	967.20
2" Cement Meter Lid Riser (Misc. Part) (\$22.96/UNIT)				
10/12/20	D. Mills	17400	1.00	22.96
TOTALS:			1.00	22.96
3/4" Gasket Small Meter Part (\$0.27/UNIT)				
10/5/20	D. Mills	16869	2.00	0.54
TOTALS:			2.00	0.54
3/4" Internal Disc O-Ring Small Meter Part (\$3.50/UNIT)				
10/5/20	T. Kennedy	17372	1.00	3.50
10/5/20	T. Kennedy	17344	1.00	3.50
10/5/20	J. Bench	17213	40.00	140.00
10/6/20	D. Mills	17356	1.00	3.50
10/6/20	T. Kennedy	17372	1.00	3.50
10/8/20	T. Kennedy	17388	1.00	3.50
10/8/20	T. Kennedy	17386	1.00	3.50
10/13/20	T. Kennedy	17410	1.00	3.50
10/27/20	J. Griffith	17504	1.00	3.50
10/27/20	J. Bench	17507	1.00	3.50
TOTALS:			49.00	171.50



Haunted House Contest

by the City of West Jordan

House showcase

The City of West Jordan is gathering decorated houses during this Halloween season to showcase to the public. Our interactive map allows residents to add homes worth driving by and checking out. Add your house and vote for your favorite house below!

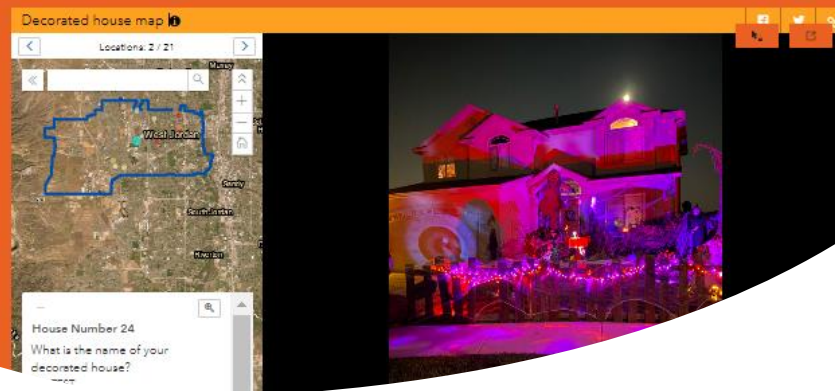
If you would like to share your decorated house to compete with others, click the button below. The best decorated homes are eligible for prizes!

Share your haunted house

Vote for your favorite house

...

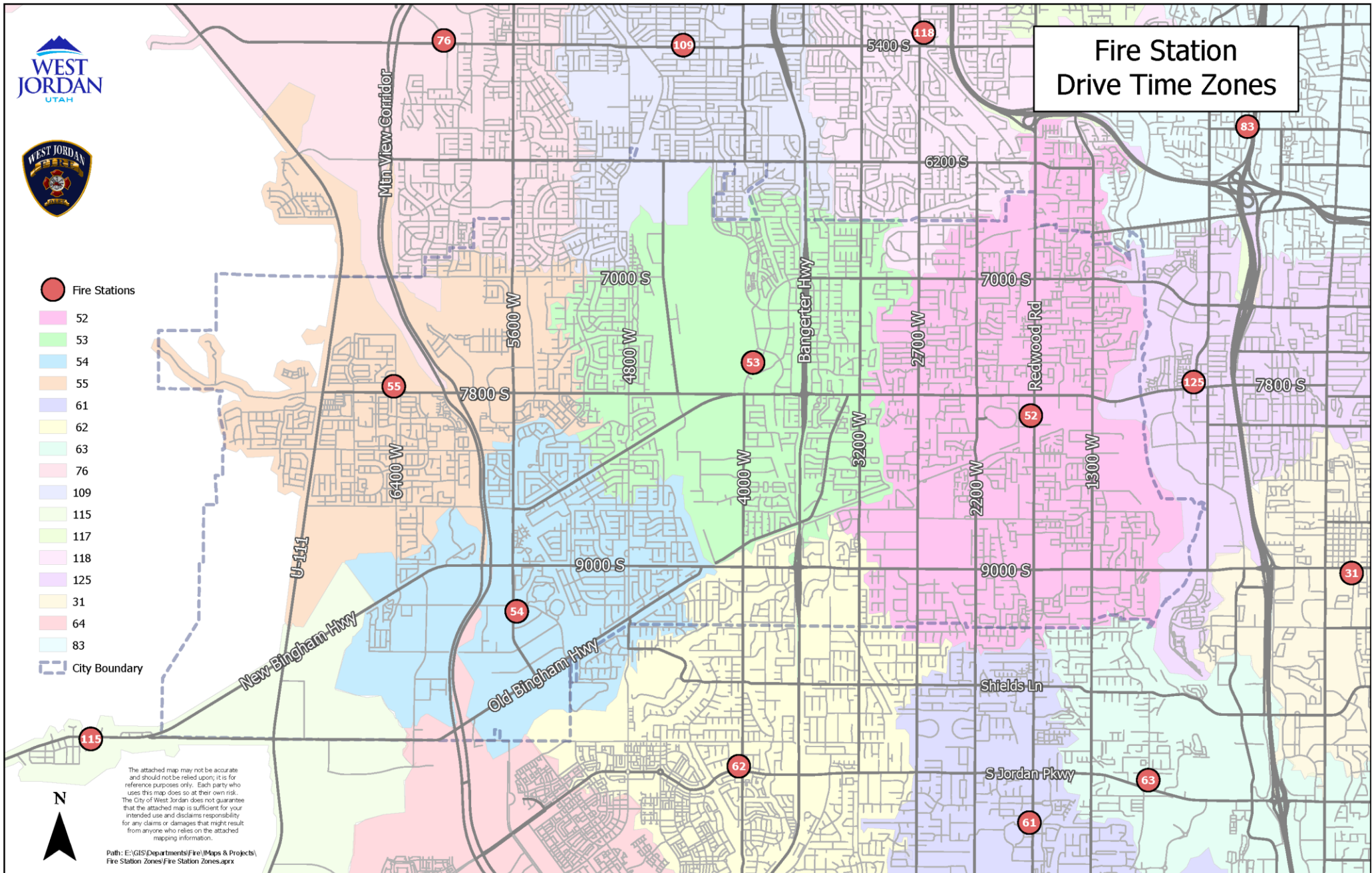
House showcase





Fire Station Drive Time Zones

- Fire Stations
- 52
- 53
- 54
- 55
- 61
- 62
- 63
- 76
- 109
- 115
- 117
- 118
- 125
- 31
- 64
- 83
- City Boundary



The attached map may not be accurate and should not be relied upon; it is for reference purposes only. Each party who uses this map does so at their own risk. The City of West Jordan does not guarantee that the attached map is sufficient for your intended use and disclaims responsibility for any claims or damages that might result from anyone who relies on the attached mapping information.

Path: E:\GIS\Departments\Fire\Maps & Projects\Fire Station Zones\Fire Station Zones.aprx

What else has GIS done recently?

- ▶ Assisted Salt Lake County with COVID-19 Map Applications
- ▶ Projects with Fire Department to show past 3 year history of Fire & Medical calls.
- ▶ Assisted the Fire Department with the GIS portion of their Strategic Plan
- ▶ Clint is serving 3rd year on the Board of Directors with Utah Geographic Information Council as Chair for Municipalities (elected position).
- ▶ Countless Utility Maps for Developers
- ▶ Invited to present at ESRI's worldwide conference 22,000 in attendance. Presented on our application of building a Citizen service request that interacts with our Work Order System.

What is coming up?

- ▶ Internal Staff Service Request
- ▶ Multi-City Holiday Decoration House Contest
- ▶ Interactive Real Time Snowplow Map
- ▶ Augmented Reality & Artificial Intelligence Applications
- ▶ Drone Applications
- ▶ Complete internal GIS Portal system (to help make our applications even more seamless & efficient).