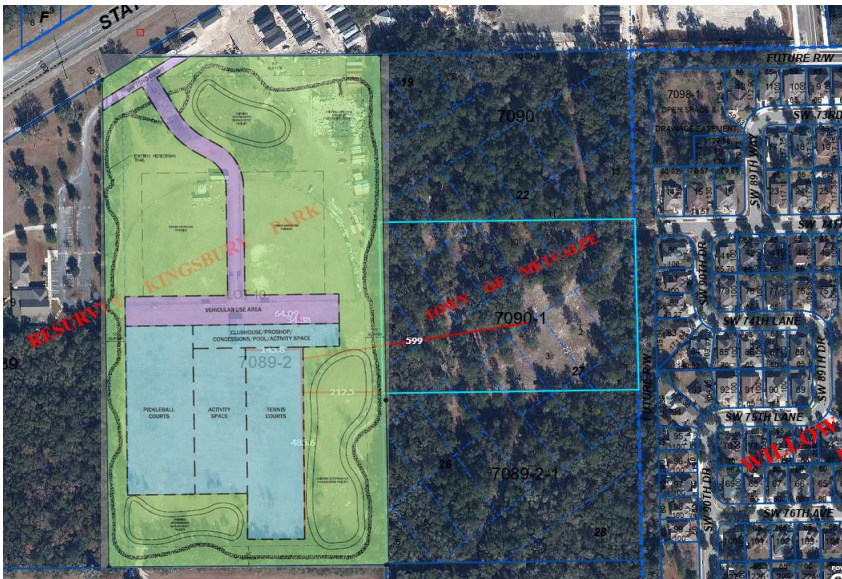


Noise Concern and Request

Flamingo Sports Center Special Exception (Z24-000007)

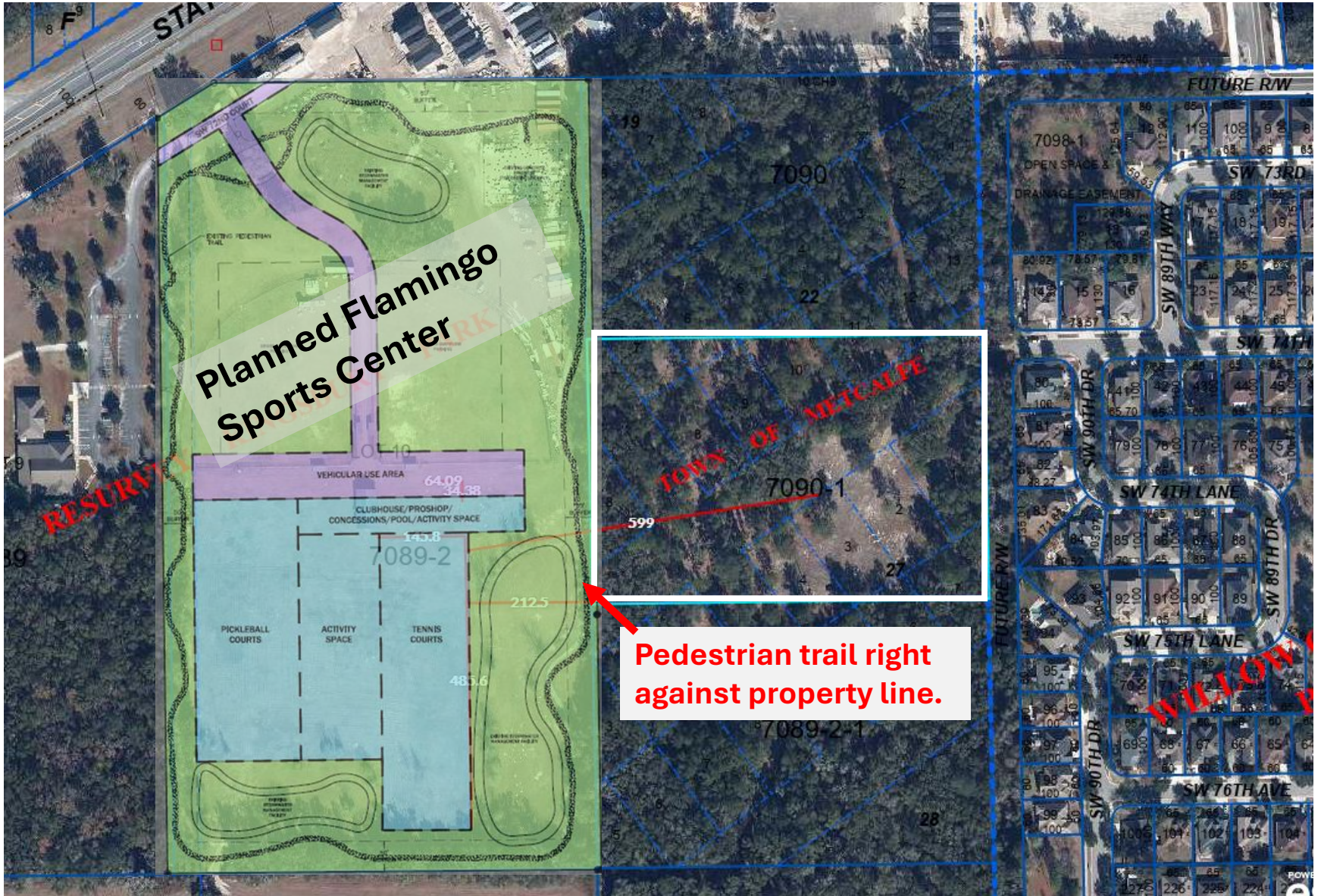
Chris Spencer
11/20/2024



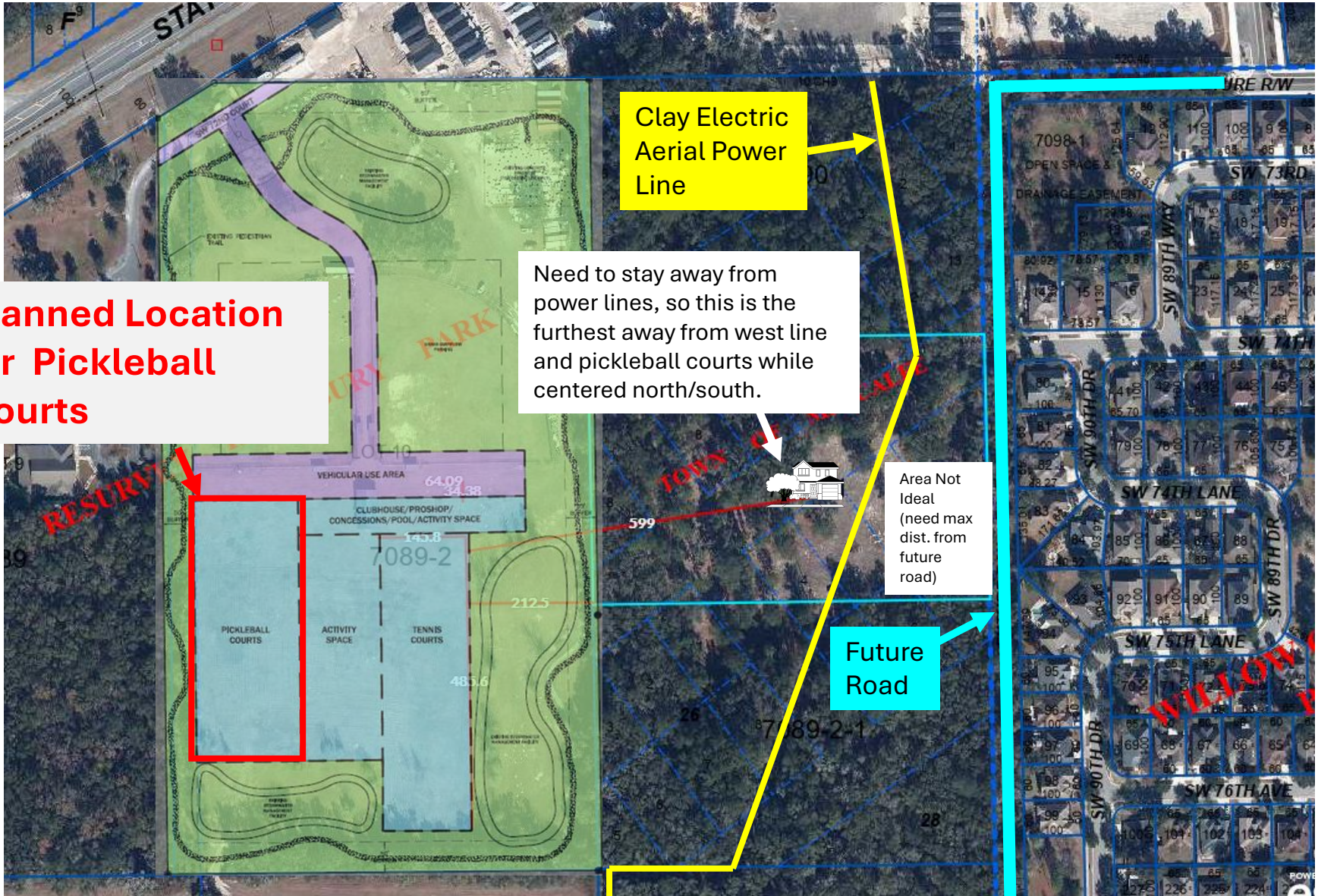
Executive Summary:

- Planned home build on Spencer property (parcel 07090-001-000) affected by future noise pollution from the planned Flamingo Sports Center pickleball courts.
- Movement of the pickleball courts furthest west and added noise mitigation of 10 foot fencing with 24dB noise attenuation a huge improvement from the plan communicated during the Neighborhood Workshop. Thank you FSC!
- Concern for pedestrian trespass from Flamingo Sports Center visitors on Spencer property.
- Ask Flamingo Sports Center to:
 - Consider adding further noise mitigation by orienting the pickleball courts for longitudinal (North/South) play.
 - Consider building barrier fencing to prevent patrons and visitors from trespassing on adjacent properties.

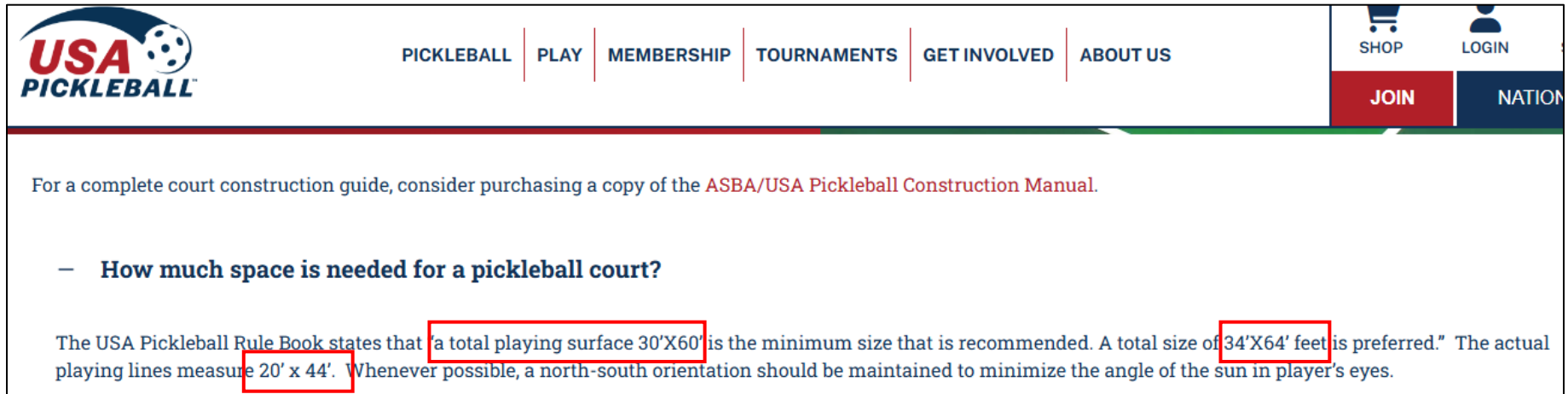
Spencer Property



Planned Home Build v/s Pickleball Courts



Typical Pickleball Court Size



The screenshot shows the top navigation bar of the USA Pickleball website. The logo is on the left, followed by menu items: PICKLEBALL, PLAY, MEMBERSHIP, TOURNAMENTS, GET INVOLVED, and ABOUT US. On the right, there are icons for SHOP and LOGIN, and buttons for JOIN and NATION.

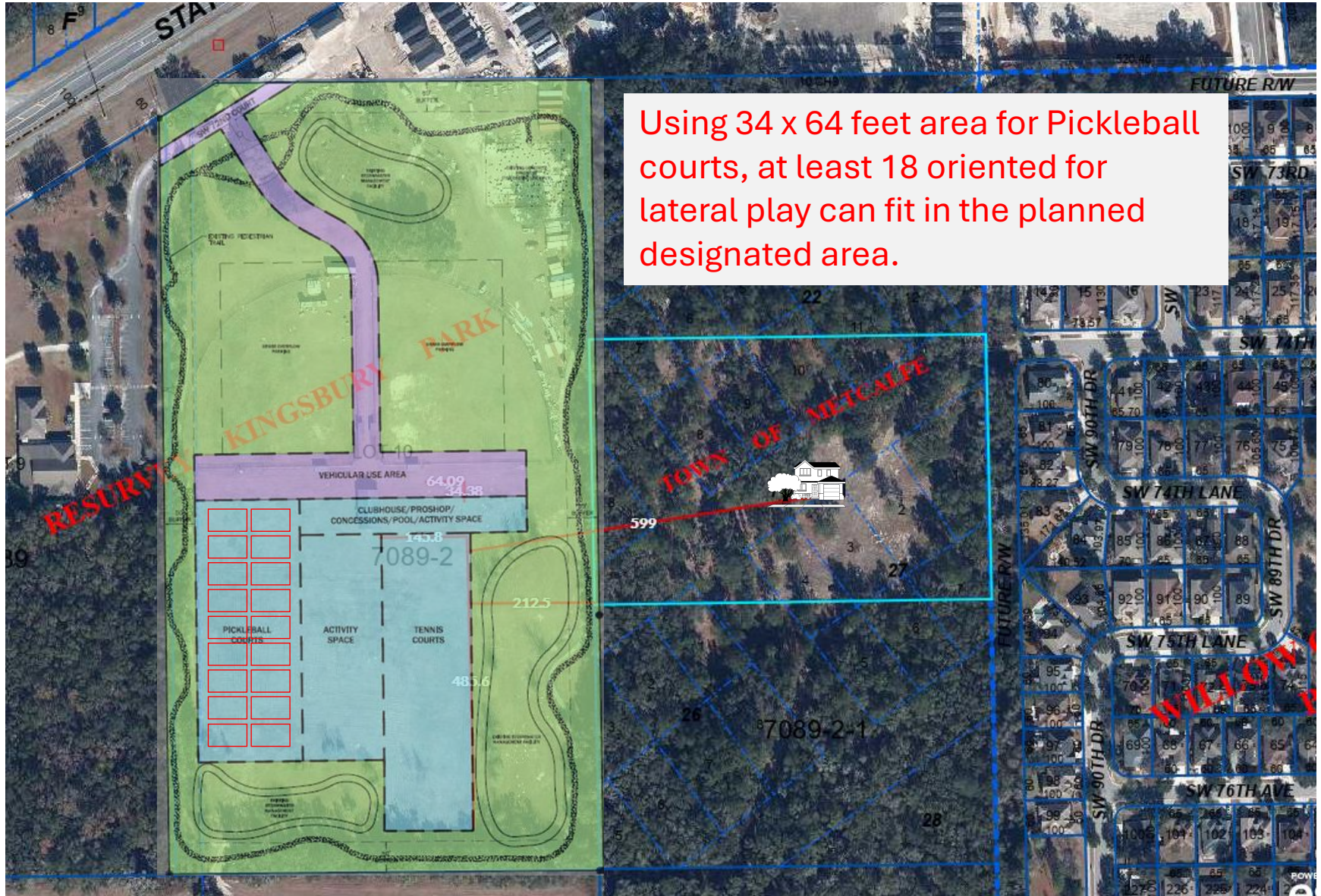
For a complete court construction guide, consider purchasing a copy of the [ASBA/USA Pickleball Construction Manual](#).

- **How much space is needed for a pickleball court?**

The USA Pickleball Rule Book states that **a total playing surface 30'X60'** is the minimum size that is recommended. A total size of **34'X64' feet** is preferred." The actual playing lines measure **20' x 44'**. Whenever possible, a north-south orientation should be maintained to minimize the angle of the sun in player's eyes.

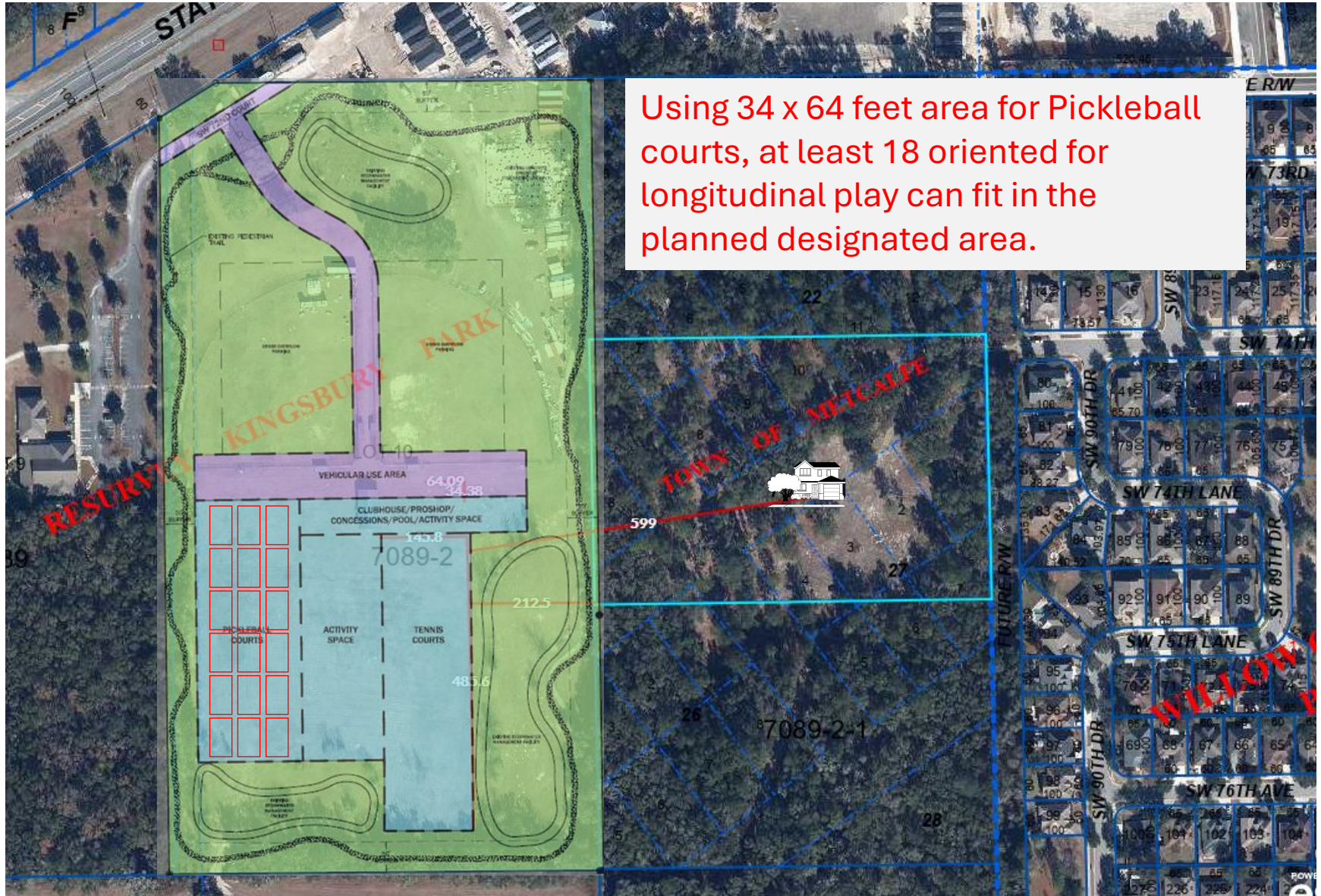
According to USA Pickleball (www.usapickleball.org), the court playing lines measure 20 x 44 feet with a preferred total court size of **34 x 64 feet.**

Maximizing the Number Pickleball Courts



Using 34 x 64 feet area for Pickleball courts, at least 18 oriented for lateral play can fit in the planned designated area.

Maximizing the Number Pickleball Courts



Using 34 x 64 feet area for Pickleball courts, at least 18 oriented for longitudinal play can fit in the planned designated area.

Pickleball Noise Study – Suggested Read

***Pickleball Noise Impact Assessment and Abatement Planning* by Lance Willis, PhD of Spendiarian & Willis Acoustics & Noise Control LLC.**

- Prepared for the City of Centennial (Centennial, Colorado)
- Chapter 1 builds relationship of sound to annoyance and potential connection to human stress and health
- Chapter 3 provides overview of municipal ordinances and regulations for noise
- Chapter 4 provides scientific classifications of sound (i.e., how it is measured); from figure 4.1, noise levels on a sidewalk next to a busy highway is between 70 and 80 decibels A (dBA).
- Chapter 5 provides information for measuring and assessing sound levels. Section 5.7 describes noise impact assessments with reference to ISO 9613 and ANSI S12.62.
- Chapter 6 provides assessment of **pickleball sound as being impulsive and causes significant noise impact to those living nearby**
- Chapter 7 provides pickleball court sound level contour maps per ANSI S12.9 (**Figures 7.1 to 7.3 to be referenced in this presentation**)
- **Chapter 9 provides noise mitigation methods for pickleball court design**

Pickleball Noise Impact Assessment and Abatement Planning by Lance Willis, PhD of Spendiarian & Willis Acoustics & Noise Control LLC.

Figure 7.2

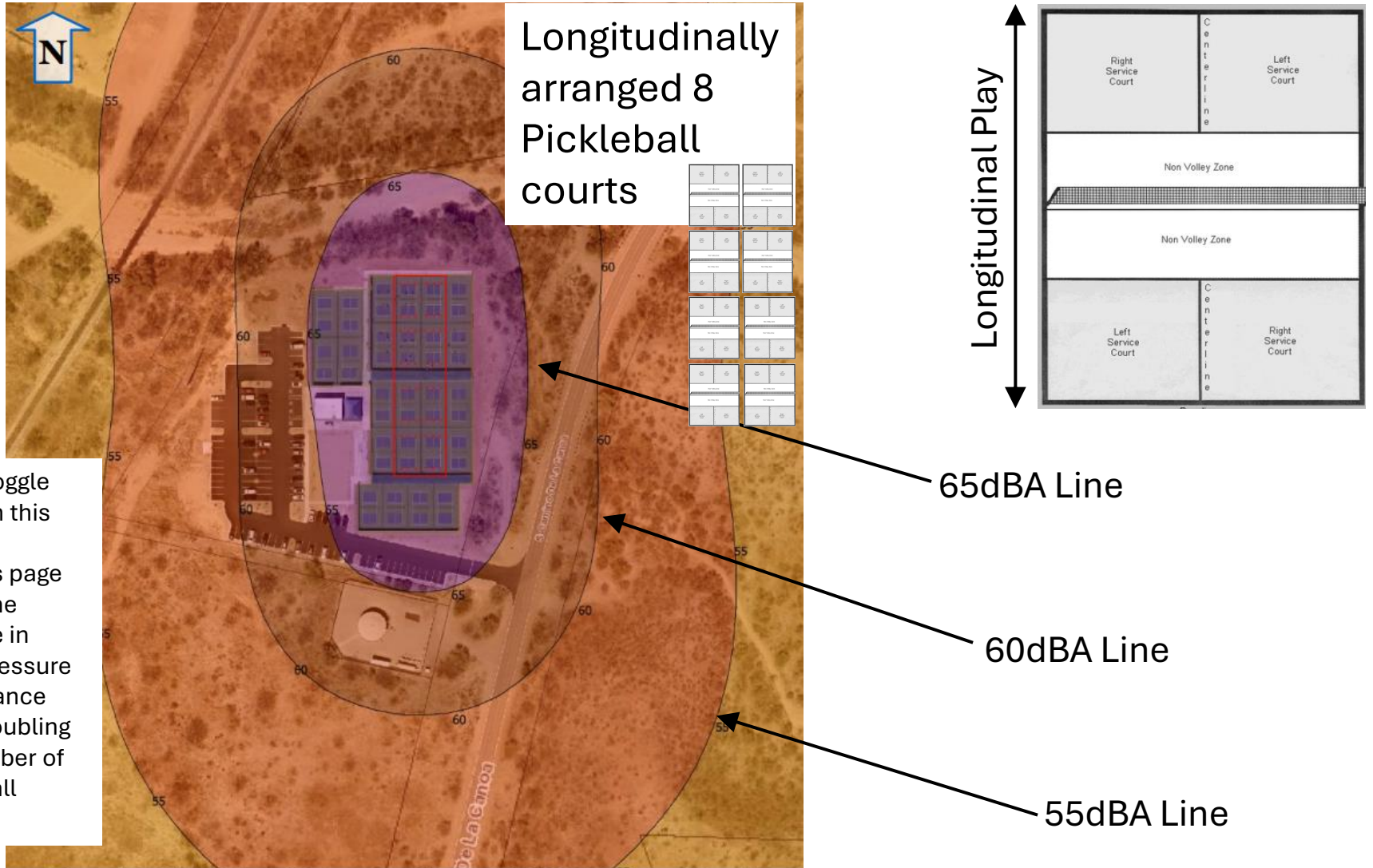


Figure 7.2. Adjusted Sound Pressure Level from Eight Pickleball Courts Aligned Longitudinally

Pickleball Noise Impact Assessment and Abatement Planning by Lance Willis, PhD of Spendiarian & Willis Acoustics & Noise Control LLC.

Figure 7.3

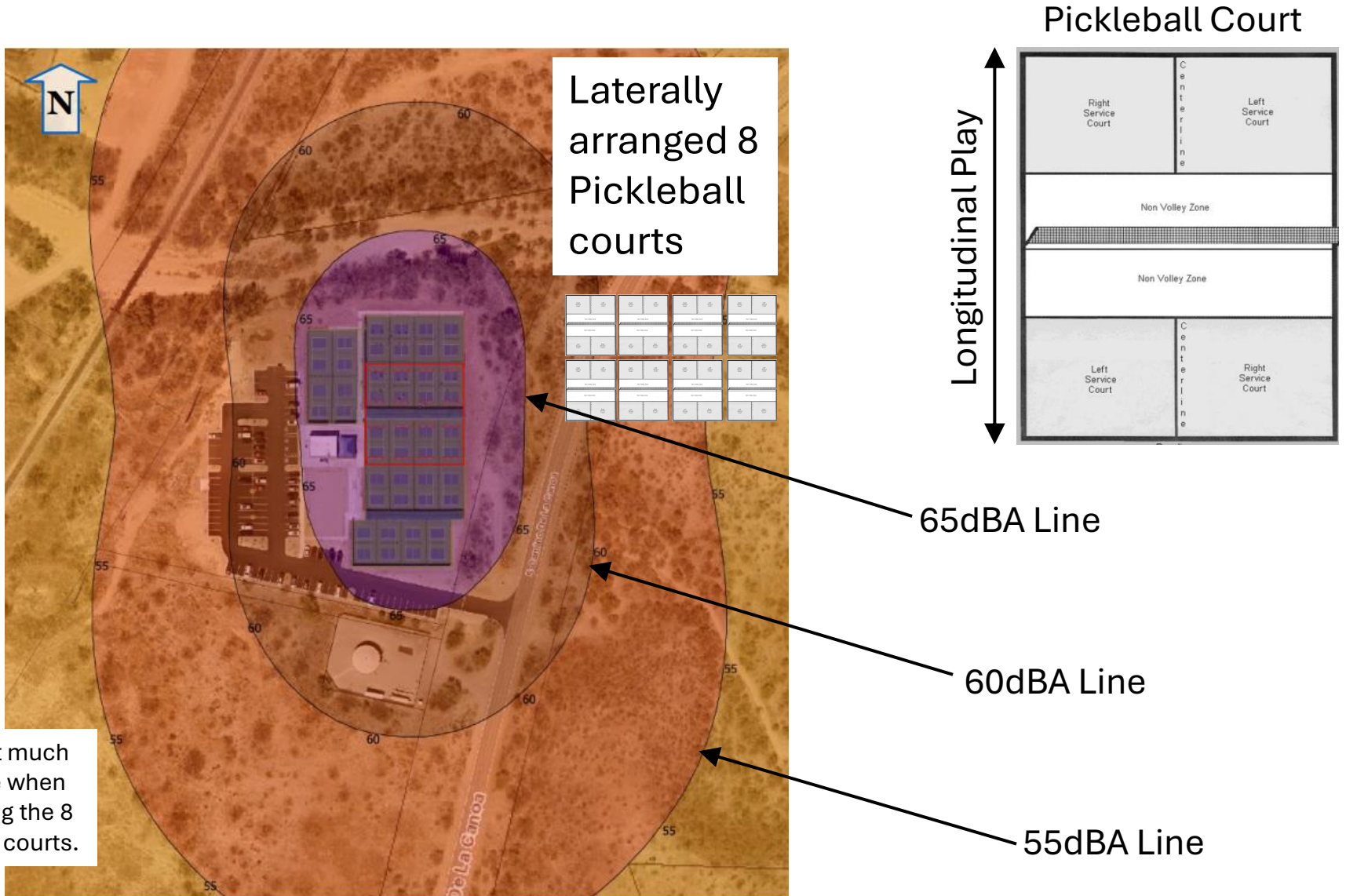
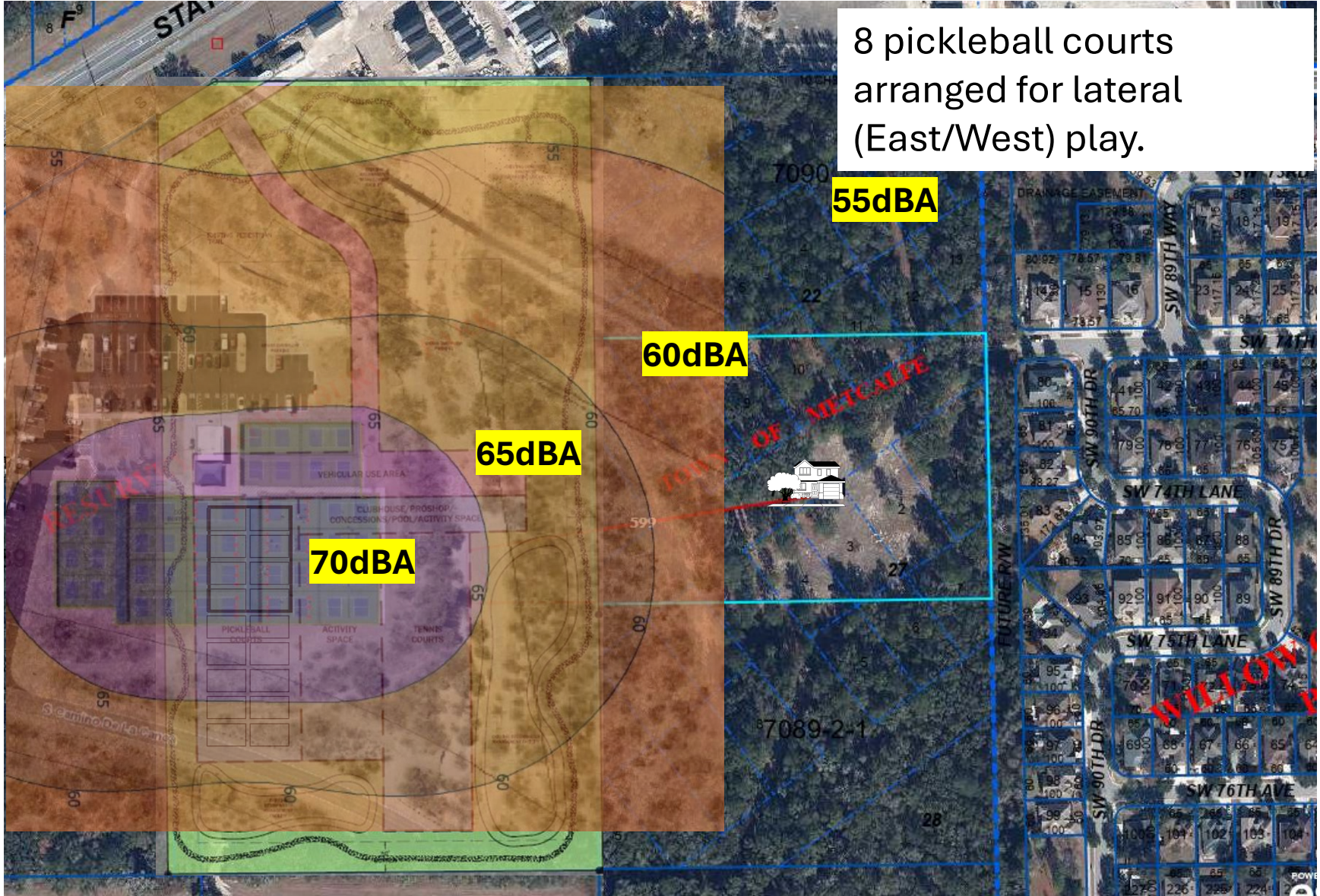


Figure 7.3. Adjusted Sound Pressure Level from Eight Pickleball Courts Aligned Laterally

Superimposing Figure 7.2



8 pickleball courts
arranged for lateral
(East/West) play.

55dBA

60dBA

65dBA

70dBA

BOUNDARY OF METCALFE

7089-2-1

WILSON

Superimposing Figure 7.2

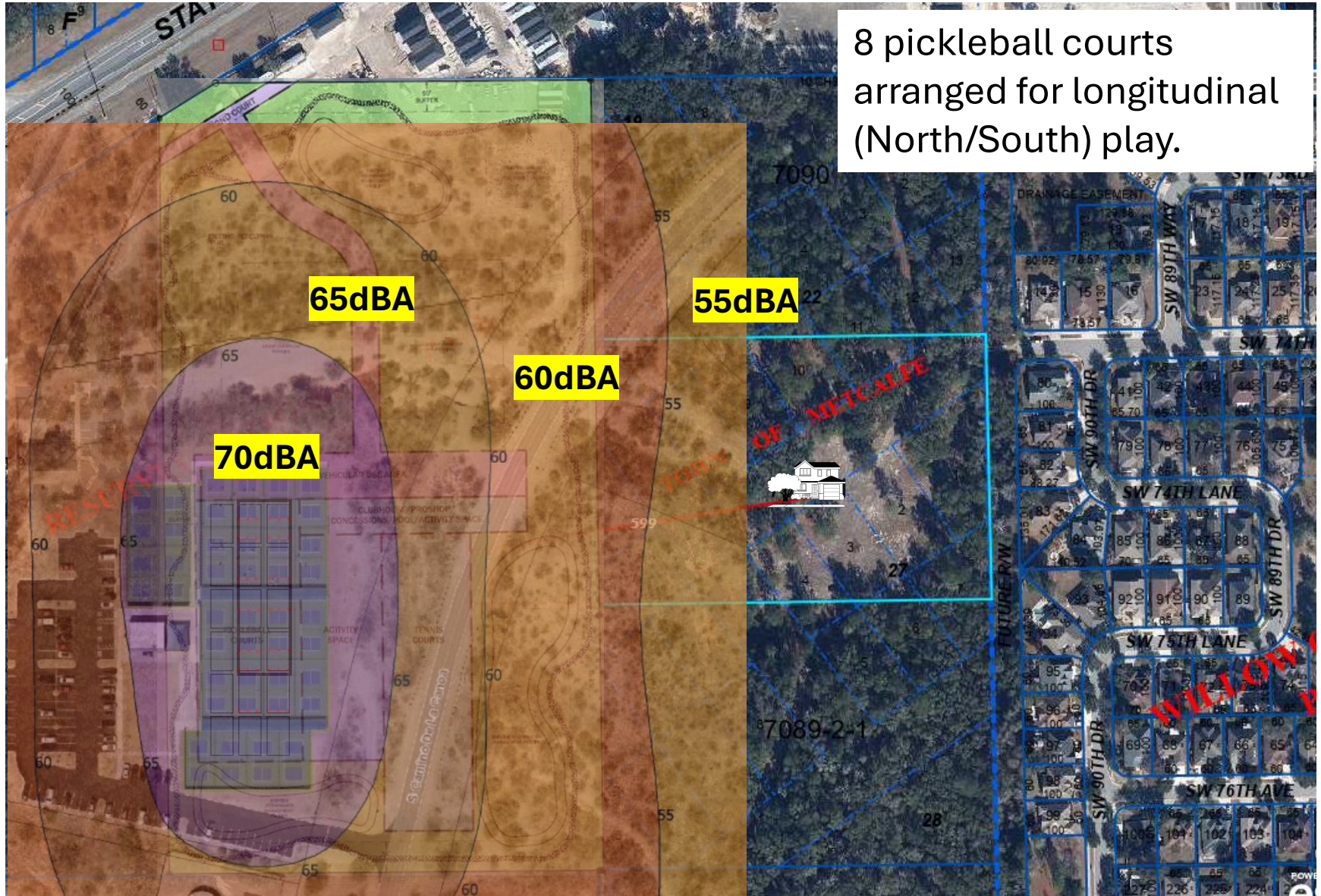


Figure 7.3's Noise Pressure Contours

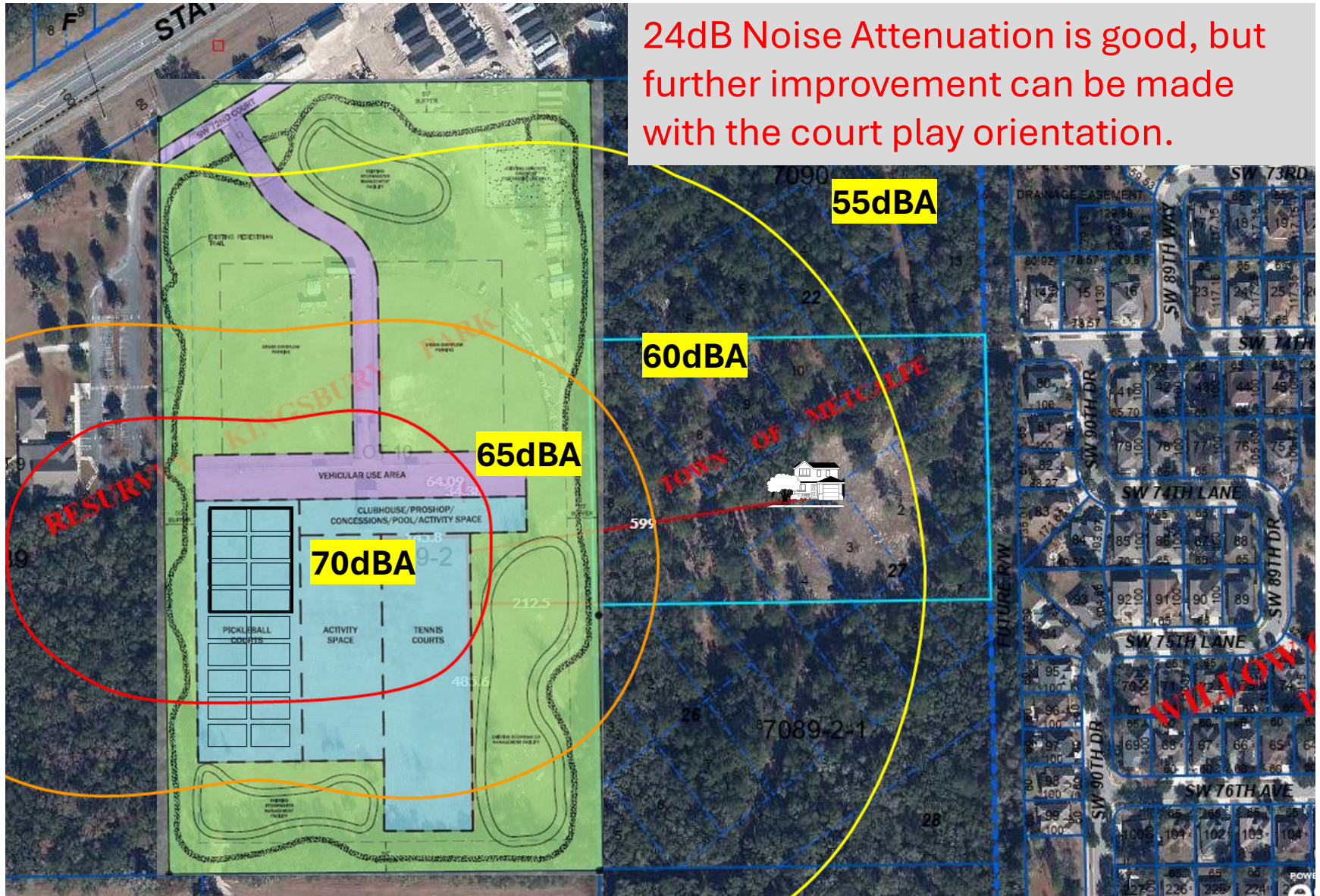
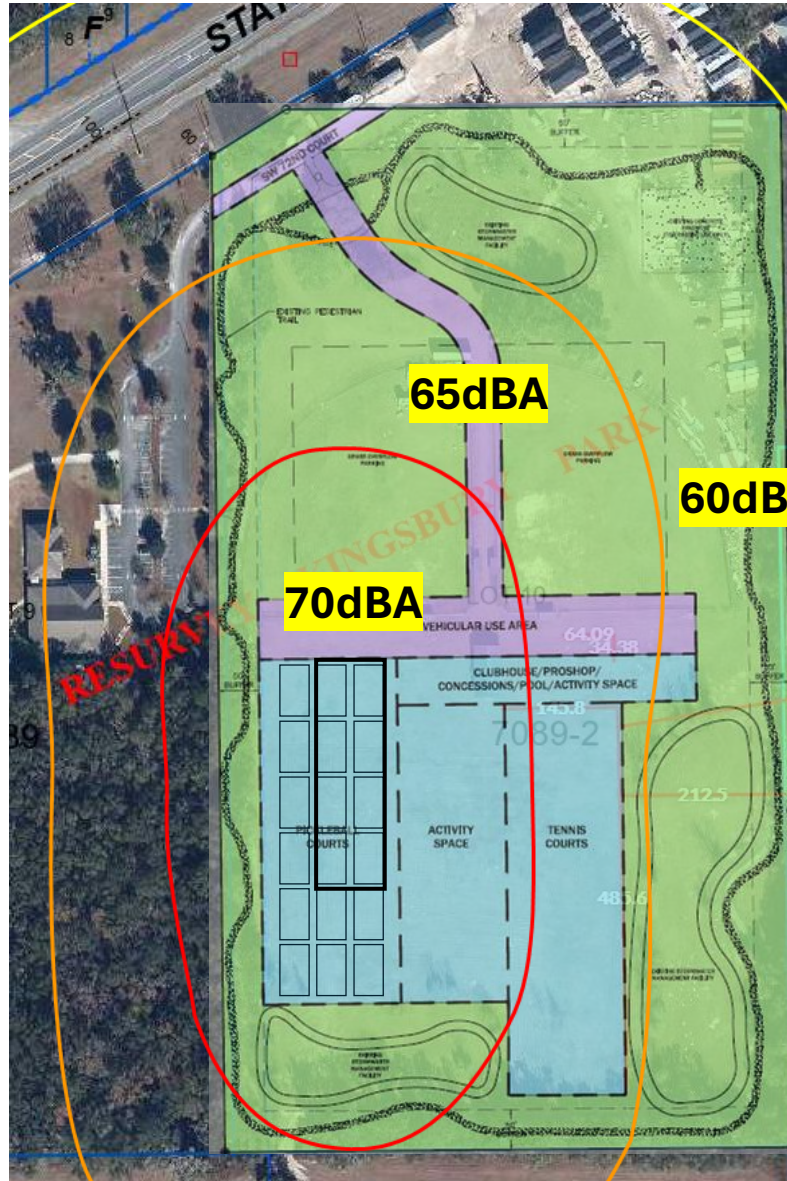


Figure 7.2's Noise Pressure Contours



Longitudinal (North/South) play further improves the noise mitigation. This is important when considering there will be more courts than this model.

